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MEDICAL LIBRARY



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ANNOUNCEMENT
OF THE
MEDICAL SCHOOL

LONGWOOD AVENUE, BOSTON, MASS.

OF
HARVARD UNIVERSITY

FOR
1918-19

WITH AN ANNOUNCEMENT FOR 1919-20




PUBLISHED BY THE UNIVERSITY

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MEDICAL SCHOOL CALENDAR

1918.

- Sept. 11, Wednesday.* Examinations begin for applicants for advanced standing, and for men previously conditioned.
- Sept. 23, Monday.* Academic Year begins. Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
- Oct. 12, Saturday.* Columbus Day: a holiday.
- Nov. 28, Thursday.* Thanksgiving Day: a holiday.
- Dec. 9, Monday.* Last day for receiving applications for the Cheever, Haven, and Hayden Scholarships.
- Dec. 31, Tuesday.* Last day for receiving dissertations for the Boylston Medical Prizes.

RECESS FROM DEC. 23, 1918, TO JAN. 2, 1919, INCLUSIVE

1919.

- Jan. 1, Wednesday.* New Year's Day, a holiday.
- Jan. 15, Wednesday.* Last day for receiving applications from students in the Professional Schools to be qualified for the degrees of Ph.D. and A.M. in 1919.
- Jan. 27, Monday.* Mid-year Examinations begin.
- Jan. 31, Friday.* Payment of the second instalment of the tuition-fee is required on or before this date.
- Feb. 1, Saturday.* Second half-year begins.
- Feb. 22, Saturday.* Washington's Birthday: a holiday.
- April 1, Tuesday.* Last day for receiving dissertations for the Bowdoin Prizes.

RECESS FROM APRIL 13 TO APRIL 19, INCLUSIVE

- May 1, Thursday.* Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
- May 1, Thursday.* Last day for receiving applications for the Bullard Fellowships and the Moseley Travelling Fellowships.

- May 1, Thursday.* Last day for receiving applications for Scholarships for 1919-20 (except the Cheever, Haven, and Hayden Scholarships).
- May 1, Thursday.* Last day for receiving applications of candidates for the degree of M.D. in 1919.
- May 30, Friday.* Memorial Day: a holiday.
- June 2, Monday.* Examinations begin.
- June 19, Thursday.* Commencement.
- SUMMER VACATION, FROM COMMENCEMENT TO SEPTEMBER 21, INCLUSIVE
- Sept. 10, Wednesday.* Examinations begin for applicants for advanced standing, and for men previously conditioned.
- Sept. 22, Monday.* Academic Year begins. Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
- Oct. 13, Monday.* Columbus Day: a holiday.
- Nov. 27, Thursday.* Thanksgiving Day: a holiday.
- Dec. 10, Wednesday.* Last day for receiving applications for the Cheever, Haven, and Hayden Scholarships.

THE BOARD OF OVERSEERS

The PRESIDENT and TREASURER of the University, *ex officio*, and the following persons by election :—

1919*

GEORGE HERBERT PALMER, A.M., LL.D., Litt.D., L.H.D.	
	11 Quincy St., Cambridge
WILLIAM ROSCOE THAYER, A.M., LL.D., Litt.D., L.H.D.	
	8 Berkeley St., Boston
FREDERICK CHEEVER SHATTUCK, A.M., M.D., LL.D., S.D.	
	135 Marlborough St., Boston
LANGDON PARKER MARVIN, A.M., LL.B.	
	52 Wall St., New York, N.Y.
FREDERICK PERRY FISH, A.B.	84 State St., Boston

1920

WILLIAM CAMERON FORBES, A.B., LL.D.	
	199 Washington St., Boston
THOMAS WILLIAMS SLOCUM, A.B.	11 Thomas St., New York, N.Y.
JOHN WHITE HALLOWELL, A.B.	Milton
EDGAR CONWAY FELTON, A.B.	Haverford, Pa.
WILLIAM COWPER BOYDEN, A.B., LL.B.	
	1130 Corn Exchange Bank Building, Chicago, Ill.

1921

ROBERT GRANT, Ph.D., LL.B.	211 Bay State Road, Boston
ROBERT FREDERICK HERRICK, LL.B., A.B.	Ruggles Lane, Milton
WILLIAM SYDNEY THAYER, A.B., M.D., LL.D.	
	406 Cathedral St., Baltimore, Md.
DWIGHT FILLEY DAVIS, A.B., LL.B.	
	16 Portland Place, St. Louis, Mo.
JOSEPH LEE, A.M., LL.B.	101 Tremont St., Boston

* The term expires, in each case, on Commencement Day of the year indicated.

1922

- HOWARD ELLIOTT, C.E. South Station, Boston
 JOHN PIERPONT MORGAN, A.B. 23 Wall St., New York, N.Y.
 WILLIAM THOMAS, A.B., LL.B. 310 Sansome St., San Francisco, Cal.
 FRANCIS LEE HIGGINSON, JR., A.B. 44 State St., Boston
 ELIOT WADSWORTH, A.B. 1718 H St., Washington, D.C.

1923

- LEONARD WOOD, M.D., LL.D., D.C.L., M.S.D.
 Camp Funston, Fort Riley, Kansas
 ARTHUR WOODS, A.M. 119 E. 36th St., New York, N.Y.
 FRANKLIN DELANO ROOSEVELT, A.B.
 Navy Department, Washington, D.C.
 FRANCIS JOSEPH SWAYZE, A.M., LL.D.
 765 High St., Newark, N.J.
 JEROME DAVIS GREENE, A.M. 116 E. 63d St., New York, N.Y.

1924

- HENRY CABOT LODGE, Ph.D., LL.B., LL.D.
 United States Senate, Washington, D.C.
 GEORGE WIGGLESWORTH, A.M., LL.B. 53 State St., Boston
 FRANCIS RANDALL APPLETON, A.B., LL.B.
 26 E. 37th St., New York, N.Y.
 IRA NELSON HOLLIS, A.M., L.H.D., S.D.
 Worcester Polytechnic Institute, Worcester
 PAUL REVERE FROTHINGHAM, A.M., S.T.B.
 294 Beacon St., Boston

 SECRETARY OF THE BOARD OF OVERSEERS

- WINTHROP HOWLAND WADE, A.M., LL.B. 39 State St., Boston

THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

This Board is commonly known as the CORPORATION.

PRESIDENT

ABBOTT LAWRENCE LOWELL, A.B., LL.B., LL.D., Ph.D.
17 Quincy St., Cambridge

FELLOWS

HENRY PICKERING WALCOTT, A.B., M.D., LL.D.
11 Waterhouse St., Cambridge

HENRY LEE HIGGINSON, A.M., LL.D. 44 State St., Boston

THOMAS NELSON PERKINS, A.B., LL.B. 60 State St., Boston

WILLIAM LAWRENCE, A.B., D.D., LL.D., D.C.L.
122 Commonwealth Ave., Boston

JOHN FARWELL MOORS, A.M., LL.D. 32 Mt. Vernon St., Boston

TREASURER

CHARLES FRANCIS ADAMS, A.B., LL.B. 50 State St., Boston

DEPUTY TREASURER

GORHAM BROOKS, A.B. 50 State St., Boston

SECRETARY TO THE CORPORATION

ROGER PIERCE, A.B. 5 University Hall, Cambridge

MEDICAL SCHOOL

FACULTY OF MEDICINE*

	ADDRESS†
ABBOTT LAWRENCE LOWELL, LL.B., LL.D., Ph.D., PRESIDENT,	17 Quincy St., Cambridge
DAVID L. EDSALL, M.D., S.D., DEAN, and <i>Jackson</i> <i>Professor of Clinical Medicine,</i>	Mass. General Hospital.
WORTH HALE, M.D., <i>Assistant Dean of the Faculty of</i> <i>Medicine, and Associate Professor of Pharmacology,</i>	91 Avalon Road, Waban.
CHARLES A. BRACKETT, D.M.D., <i>Professor of Den-</i> <i>tal Pathology,</i>	Newport, R. I.
EUGENE H. SMITH, D.M.D., <i>Professor of Clinical</i> <i>Dentistry, and Dean of the Dental School,</i>	283 Dartmouth St.
WILLIAM F. WHITNEY, M.D., <i>John Barnard Swett</i> <i>Jackson Curator of the Warren Anatomical Museum,</i>	Harvard Medical School.
WILLIAM T. COUNCILMAN, M.D., A.M., LL.D., <i>Shattuck Professor of Pathological Anatomy,</i>	78 Bay State Road.
GEORGE H. MONKS, M.D., M.R.C.S., <i>Professor of</i> <i>Oral Surgery,</i>	51 Commonwealth Ave.
HAROLD C. ERNST, M.D., A.M., <i>Professor of Bacteri-</i> <i>ology,</i>	Harvard Medical School.
WILLIAM H. POTTER, D.M.D., <i>Professor of Opera-</i> <i>tive Dentistry,</i>	520 Beacon St.
GEORGE G. SEARS, M.D., <i>Professor of Clinical Medi-</i> <i>cine,</i>	426 Beacon St.
WILLIAM P. COOKE, D.M.D., <i>Professor of Preven-</i> <i>tive Dentistry and Oral Hygiene,</i>	520 Beacon St.

* Arranged, with the exception of the President, Dean, and Assistant Dean, on the basis of collegiate seniority.

† The address is Boston unless otherwise stated.

- ALGERNON COOLIDGE, M.D., *Professor of Laryngology*, 613 Beacon St.
- ROBERT W. LOVETT, M.D., *John B. and Buckminster Brown Professor of Orthopedic Surgery*, 234 Marlborough St.
- WILLIAM T. PORTER, M.D., LL.D., S.D., *Professor of Comparative Physiology*, Dover.
- ELLIOTT G. BRACKETT, M.D., *Assistant Professor of Orthopedic Surgery*, 166 Newbury St.
[Absent during 1918-19.]
- CHARLES L. SCUDDER, M.D., *Assistant Professor of Surgery*, 209 Beacon St.
- PAUL THORNDIKE, M.D., *Clinical Professor of Genito-Urinary Surgery*, 24 Marlborough St.
- HORACE D. ARNOLD, M.D., *Director of the Graduate School of Medicine*, 520 Commonwealth Ave.
[Absent during 1918-19.]
- MILTON J. ROSENAU, M.D., A.M., *Professor of Preventive Medicine and Hygiene*, 65 Naples Road, Brookline.
- FRANK B. MALLORY, M.D., *Associate Professor of Pathology*, Harvard Medical School.
- EDWARD H. NICHOLS, M.D., *Professor of Clinical Surgery*, 294 Marlborough St.
[Absent during 1918-19.]
- J. BAPST BLAKE, M.D., *Assistant Professor of Surgery*, 161 Beacon St.
- EUGENE A. CROCKETT, M.D., *Walter Augustus Lecompte Professor of Otology*, 298 Marlborough St.
[Absent during 1918-19.]
- HOWARD A. LOTHROP, M.D., *Assistant Professor of Surgery*, 101 Beacon St.
- JOHN L. MORSE, M.D., *Professor of Pediatrics*, 70 Bay State Road.
- ALEXANDER QUACKENBOSS, M.D., *Assistant Professor of Ophthalmology*, 143 Newbury St.
[Absent during 1918-19.]
- CHARLES A. PORTER, M.D., *Professor of Clinical Surgery*, 116 Beacon St.
- EDWARD W. TAYLOR, M.D., *Professor of Neurology*, 457 Marlborough St.

- RICHARD C. CABOT, M.D., *Professor of Clinical Medicine*,
1 Marlborough St.
[Absent during 1918-19.]
- JAMES S. STONE, M.D., *Instructor in Surgery*, 234 Marlborough St.
[Absent during 1918-19.]
- ELLIOTT P. JOSLIN, M.D., A.M., *Assistant Professor of Medicine*,
81 Bay State Road.
[Absent during 1918-19.]
- CALVIN G. PAGE, M.D., *Instructor in Bacteriology*,
128 Marlborough St.
- C. MORTON SMITH, M.D., *Assistant Professor of Syphilology*,
437 Marlborough St.
- CHARLES J. WHITE, M.D., *Edward Wigglesworth Professor of Dermatology*,
259 Marlborough St.
- JAMES H. WRIGHT, M.D., S.D., *Assistant Professor of Pathology*,
Mass. General Hospital.
- HARVEY CUSHING, M.D., S.D., F.R.C.S., *Moseley Professor of Surgery*,
305 Walnut St., Brookline.
[Absent during 1918-19.]
- WILLIAM P. GRAVES, M.D., *Professor of Gynecology*,
244 Marlborough St.
- REID HUNT, M.D., *Professor of Pharmacology*,
382 Commonwealth Ave.
- WILLIAM H. ROBEY, JR., M.D., *Instructor in Medicine*,
202 Commonwealth Ave.
[Absent during 1918-19.]
- OTTO FOLIN, Ph.D., S.D., *Hamilton Kuhn Professor of Biological Chemistry*,
Harvard Medical School.
- ROBERT B. GREENOUGH, M.D., *Assistant Professor of Surgery*,
8 Marlborough St.
- HARRIS P. MOSHER, M.D., *Assistant Professor of Laryngology, and Associate in Anatomy*,
828 Beacon St.
[Absent during 1918-19.]
- FRANKLIN S. NEWELL, M.D., *Professor of Clinical Obstetrics*,
443 Beacon St.
- WILLIAM H. SMITH, M.D., *Instructor in Medicine*,
8 Marlborough St.
- RICHARD P. STRONG, M.D., S.D., *Professor of Tropical Medicine*,
Harvard Medical School
[Absent during 1918-19.]

- HUGH CABOT, M.D., *Assistant Professor of Genito-Urinary Surgery*, 87 Marlborough St.
[Absent during 1918-19.]
- GEORGE B. MAGRATH, M.D., *Instructor in Legal Medicine*, 274 Boylston St.
- FREDERICK S. BURNS, M.D., *Instructor in Dermatology*, 237 Marlborough St.
- HENRY A. CHRISTIAN, M.D., *Hersey Professor of the Theory and Practice of Physic*, 252 Marlborough St.
- FREDERICK H. VERHOEFF, M.D., *Assistant Professor of Ophthalmic Research*, 5 Euston St., Brookline.
[Absent during 1918-19.]
- JOHN L. BREMER, M.D., *Associate Professor of Histology*, 295 Marlborough St.
- WALTER B. CANNON, M.D., *George Higginson Professor of Physiology*, Harvard Medical School.
[Absent during 1918-19.]
- CHARLES H. DUNN, M.D., *Instructor in Pediatrics*, 178 Marlborough St.
- EDWIN A. LOCKE, M.D., *Assistant Professor of Medicine*, 311 Beacon St.
- JOHN WARREN, M.D., *Associate Professor of Anatomy*, Harvard Medical School.
[Absent during 1918-19.]
- DAVID CHEEVER, M.D., *Assistant Professor of Surgery, and Associate in Anatomy*, 20 Hereford St.
- FREDERIC T. LEWIS, M.D., *Associate Professor of Embryology*, Harvard Medical School.
- FREDERICK T. LORD, M.D., *Instructor in Medicine*, 305 Beacon St.
- ELMER E. SOUTHARD, M.D., A.M., S.D., *Bullard Professor of Neuropathology*, 70 Francis Ave., Cambridge.
[Absent during 1918-19.]
- PERCY G. STILES, Ph.D., *Assistant Professor of Physiology*, 19 Proctor St., Newtonville.
- ERNEST E. TYZZER, M.D., *George Fabyan Professor of Comparative Pathology*, Harvard Medical School.
- LAWRENCE J. HENDERSON, M.D., *Assistant Professor of Biological Chemistry*, 4 Willard St., Cambridge.
- CLEAVELAND FLOYD, M.D., *Silas Arnold Houghton Assistant Professor of Bacteriology*, 246 Marlborough St.

- S. BURT WOLBACH, M.D., *Associate Professor of Pathology and Bacteriology*, 420 Beacon St.
- MARSHAL FABYAN, M.D., *Assistant Professor of Comparative Pathology*, Harvard Medical School.
- EDWIN H. PLACE, M.D., *Assistant Professor of Pediatrics*, 745 Massachusetts Ave.
- FRITZ B. TALBOT, M.D., *Instructor in Pediatrics*, 311 Beacon St.
- CHANNING FROTHINGHAM, M.D., *Instructor in Medicine*, 395 Marlborough St.
[Absent during 1918-19.]
- ROBERT M. GREEN, M.D., *Instructor in Anatomy, and Assistant in Gynaecology*, 496 Commonwealth Ave.
- ALEXANDER S. BEGG, M.D., *Dean of the Graduate School of Medicine, and Instructor in Anatomy*, Harvard Medical School.
[Absent during 1918-19.]
- FRANCIS W. PEABODY, M.D., *Assistant Professor of Medicine*, Peter Bent Brigham Hospital.
[Absent during 1918-19.]
- ANDREW W. SELLARDS, M.D., *Assistant Professor of Tropical Medicine*, Harvard Medical School.
[Absent during 1918-19.]
- ALEXANDER FORBES, M.D., *Instructor in Physiology*, Milton.
[Absent during 1918-19.]
- I. CHANDLER WALKER, M.D., *Assistant Professor of Medicine*, 9 Auburn Court, Brookline
- GEORGE W. HOLMES, M.D., *Instructor in Roentgenology*, 48 Wachusett Road, Chestnut Hill
- JACQUES BRONFENBRENNER, Ph.D., *Assistant Professor of Preventive Medicine and Hygiene*, 81 Moraine St., Jamaica Plain.
- CECIL K. DRINKER, M.D., *Assistant Professor of Physiology*, 22 Evans Way.
- ERNEST W. GOODPASTURE, M.D., *Instructor in Pathology*, 40 Temple St., Reading.
- GEORGE R. MINOT, M.D., *Assistant Professor of Medicine*, 188 Marlborough St.
- EDWARD A. BOYDEN, Ph.D., *Instructor in Comparative Anatomy*, 61 Clark St., Newton Centre

- WARD H. COOK, M.D., *Instructor in Pathology*,
10 Dana St., Cambridge.
- WILLIAM T. BOVIE, PH.D., *Instructor in Bacteri-*
ology, 332 Eliot St., Milton.
- CYRUS H. FISKE, M.D., *Assistant Professor of Bio-*
logical Chemistry, 11 Story St., Cambridge.

OTHER INSTRUCTORS IN THE HARVARD MEDICAL
SCHOOL *

ADDRESS†

- WILLIAM F. KNOWLES, M.D., *Instructor in Otology*,
[Absent during 1918-19.] 220 Clarendon St.
- FRANCIS P. EMERSON, M.D., *Instructor in Otology*,
[Absent during 1918-19.] 520 Commonwealth Ave.
- WILLIAM N. SOUTER, M.D., *Instructor in Ophthal-*
mology, 101 Mt. Vernon St.
- MALCOLM STORER, M.D., *Instructor in Gynaecology*,
302 Beacon St.
- WILLIAM E. FAULKNER, M.D., *Associate in Surgery*,
[Absent during 1918-19.] 290 Marlborough St.
- FRED B. LUND, M.D., *Associate in Surgery*, 527 Beacon St.
[Absent during 1918-19.]
- WILLIAM E. DEEKS, M.D., *Lecturer on Tropical*
Medicine, 18 Battery Place, New York, N. Y.
- JOSEPH L. GOODALE, M.D., *Instructor in Laryn-*
gology, 258 Beacon St.
- FREDERIC J. COTTON, M.D., *Associate in Surgery*,
[Absent during 1918-19.] 520 Commonwealth Ave.
- WILLIAM P. COUES, M.D., *Assistant in Surgery*,
31 Massachusetts Ave.
- PHILIP HAMMOND, M.D., *Instructor in Otology*, 483 Beacon St.
- HENRY H. HASKELL, M.D., *Instructor in Ophthal-*
mology, 29 Commonwealth Ave.
- SIDNEY A. LORD, M.D., *Assistant in Neurology*, Concord.
- HARRY A. BARNES, M.D., *Instructor in Laryngology*, 205 Beacon St.
[Absent during 1918-19.]
- JOHN W. CUMMIN, M.D., *Assistant in Surgery*,
9 Massachusetts Ave.

* Arranged on the basis of collegiate seniority.

† The address is Boston, unless otherwise stated.

- JOSHUA C. HUBBARD, M.D., *Associate in Surgery*,
[Absent during 1918-19.] 86 Bay State Road.
- DANIEL F. JONES, M.D., *Associate in Surgery*, 195 Beacon St.
[Absent during 1918-19.]
- HARRIS P. MOSHER, M.D., *Associate in Anatomy*, 828 Beacon St.
[Absent during 1918-19.]
- HENRY J. PERRY, M.D., *Assistant in Bacteriology*,
45 Bay State Road.
- ROBERT H. VOSE, M.D., *Instructor in Surgery*, 443 Beacon St.
[Absent during 1918-19.]
- ERNEST B. YOUNG, M.D., *Instructor in Gynaecology*,
[Absent during 1918-19.] 434 Marlborough St.
- FREEMAN ALLEN, M.D., *Instructor in Anaesthesia*, 200 Beacon St.
- JOHN H. BLODGETT, M.D., *Instructor in Laryngology*,
390 Commonwealth Ave.
- SAMUEL W. ELLSWORTH, M.D., *Assistant in Roent-*
genology, 180 Monroe Road, Quincy.
[Absent during 1918-19.]
- RALPH C. LARRABEE, M.D., *Instructor in Medicine*, 912 Beacon St.
- FRED M. SPALDING, M.D., *Instructor in Ophthal-*
mology, 39 Huntington Ave.
- MAYNARD LADD, M.D., *Instructor in Pediatrics*, 270 Clarendon St.
[Absent during 1918-19.]
- ROBERT SOUTTER, M.D., *Instructor in Orthopedic*
Surgery, 133 Newbury St.
- DAVID H. WALKER, M.D., *Instructor in Otology*,
390 Commonwealth Ave.
- D. CROSBY GREENE, M.D., *Instructor in Laryngology*,
[Absent during 1918-19.] 483 Beacon St.
- HARRY F. HARTWELL, M.D., *Instructor in Surgery*,
36 Walnut Park, Newton.
- FRANK HUNT, M.D., *Instructor in Medicine*,
Boston Consumptives' Hospital, Mattapan.
- ROBERT B. OSGOOD, M.D., *Instructor in Surgery*
and in Orthopedic Surgery, 372 Marlborough St.
[Absent during 1918-19.]
- CHANNING C. SIMMONS, M.D., *Instructor in Sur-*
gery, 317 Marlborough St.
- JAMES R. TORBERT, M.D., *Assistant in Obstetrics*,
[Absent during 1918-19.] 252 Marlborough St.

- PERCY BROWN, M.D., *Instructor in Roentgenology*,
[Absent during 1918-19.] 155 Newbury St.
- GEORGE S. DERBY, M.D., *Instructor in Ophthalmology*,
522 Commonwealth Ave.
[Absent during 1918-19.]
- WILLIAM W. HOWELL, M.D., *Assistant in Pediatrics*,
279 Clarendon St.
- ARTHUR T. LEGG, M.D., *Instructor in Orthopedic Surgery*,
535 Beacon St.
- ALBERT E. STEELE, M.D., *Instructor in Bacteriology*,
79 Robert St., Roslindale.
- RICHARD G. WADSWORTH, M.D., *Assistant in Gynecology*,
522 Commonwealth Ave.
- HORACE BINNEY, M.D., *Assistant in Genito-Urinary Surgery*,
205 Beacon St.
[Absent during 1918-19.]
- DAVID CHEEVER, M.D., *Associate in Anatomy*, 20 Hereford St.
- JOHN M. LITTLE, JR., M.D., *Assistant in Surgery*,
374 Marlborough St.
- NATHANIEL R. MASON, M.D., *Assistant in Obstetrics and Gynaecology*,
483 Beacon St.
[Absent during 1918-19.]
- HENRY I. BOWDITCH, M.D., *Instructor in Pediatrics*,
86 Bay State Road.
- ROBERT L. DENORMANDIE, M.D., *Assistant in Obstetrics*,
357 Marlborough St.
- HAROLD A. GALE, M.D., *Assistant in Pediatrics*, Winchester.
- FREDERICK E. GARLAND, M.D., *Instructor in Laryngology*,
483 Beacon St.
- FRANCIS W. PALFREY, M.D., *Instructor in Medicine*,
Camp Green, Charlotte, N. C.
[Absent during 1918-19.]
- BETH VINCENT, M.D., *Assistant in Surgery*, 295 Beacon St.
[Absent during 1918-19.]
- ZABDIEL B. ADAMS, M.D., *Instructor in Orthopedic Surgery*,
166 Newbury St.
[Absent during 1918-19.]
- ALFRED W. BOSWORTH, A.M., *Research Fellow in Pediatrics*,
418 Brook Road, Milton.
- PATRICK F. BUTLER, M.D., *Assistant in Roentgenology*,
520 Beacon St.

- JOHN HOMANS, M.D., *Instructor in Surgery*,
[Absent during 1918-19.] 559 Chestnut Hill Ave., Brookline.
- HENRY D. LLOYD, M.D., *Assistant in Syphilology*, 657 Boylston St.
- ELBA D. McCARTY, M.D., *Assistant in Roentgenology*,
Peter Bent Brigham Hospital.
- WILLIAM C. QUINBY, M.D., *Instructor in Surgery*,
and *Director of Laboratory of Surgical Research*,
Peter Bent Brigham Hospital.
- FRANK L. RICHARDSON, M.D., *Instructor in Anaes-*
thesia, 543 Boylston St.
- FRED A. SIMMONS, M.D., *Assistant in Otology*, 233 Charles St.
- WILLIAM D. SMITH, M.D., *Assistant in Medicine*,
99 Commonwealth Ave.
- GEORGE L. TOBEY, JR., M.D., *Instructor in Otology*,
[Absent during 1918-19.] 416 Marlborough St.
- J. DELLINGER BARNEY, M.D., *Assistant in Genito-*
Urinary Surgery, 99 Commonwealth Ave.
- HORACE K. BOUTWELL, M.D., *Assistant in Bacteri-*
ology, 39 St. Paul St., Brookline.
[Absent during 1918-19.]
- GEORGE O. CLARK, M.D., *Assistant in Surgery*, 142 Beacon St.
- CALVIN B. FAUNCE, JR., M.D., *Instructor in Otology*,
320 Commonwealth Ave.
- FREDERICK L. GOOD, M.D., *Assistant in Surgery*, 95 Newbury St.
- CONRAD JACOBSON, M.D., *Instructor in Surgery*,
Peter Bent Brigham Hospital.
- HARRY LINENTHAL, M.D., *Assistant in Medicine*,
45 Bay State Road.
- E. LAWRENCE OLIVER, M.D., *Assistant in Derna-*
tology, 362 Commonwealth Ave.
[Absent during 1918-19.]
- JOHN T. WILLIAMS, M.D., *Assistant in Gynaecology*, 483 Beacon St.
- GEORGE H. WRIGHT, D.M.D., *Assistant in Laryn-*
gology, 149 Newbury St.
- GEORGE J. WRIGHT, M.D., *Assistant in Neuro-*
pathology, 74 Fenwood Road.
- GERALD BLAKE, M.D., *Assistant in Medicine*, 212 Beacon St.
- HENRY LYMAN, M.D., *Research Fellow in Biological*
Chemistry, 36 Commonwealth Ave.
[Absent during 1918-19.]
- LOUIS MENDELSON, M.D., *Assistant in Medicine*,
262 Commonwealth Ave.

- FRANK R. OBER, M.D., *Assistant in Orthopedic Surgery*, 254 Marlborough St.
[Absent during 1918-19.]
- CHARLES L. OVERLANDER, M.D., *Instructor in Medicine*, 520 Beacon St.
- CHARLES E. SANDOZ, M.D., *Assistant in Psychiatry*, 74 Fenwood Road.
- WYMAN WHITTEMORE, M.D., *Assistant in Surgery*, 330 Dartmouth St.
- BENJAMIN E. WOOD, M.D., *Assistant in Anatomy*, 320 Beacon St.
- ROBERT M. GREEN, M.D., *Assistant in Gynecology*, 496 Commonwealth Ave.
- FRANK A. HAMILTON, M.D., *Assistant in Anatomy*, 49 Chambers St.
- JAMES L. HUNTINGTON, M.D., *Assistant in Obstetrics*, 311 Marlborough St.
- WILLIAM E. LADD, M.D., *Instructor in Surgery*, 346 Beacon St.
- EDWARD P. RICHARDSON, M.D., *Assistant in Surgery*, 224 Beacon St.
[Absent during 1918-19.]
- EDWARD H. RISLEY, M.D., *Assistant in Anatomy and in Surgery*, 520 Commonwealth Ave.
[Absent during 1918-19.]
- PHILIP H. SYLVESTER, M.D., *Instructor in Pediatrics*, 866 Beacon St., Newton Centre.
- FRANZ R. WULLFAERT, M.D., *Assistant in Pathology*, Peter Bent Brigham Hospital.
- JAMES B. AYER, M.D., *Instructor in Neurology*, 518 Beacon St.
[Absent during 1918-19.]
- LLOYD T. BROWN, M.D., *Assistant in Orthopedic Surgery*, 372 Marlborough St.
- MARTIN J. ENGLISH, M.D., *Assistant in Medicine*, 514 Commonwealth Ave.
[Absent during 1918-19.]
- HENRY J. FITZSIMMONS, M.D., *Assistant in Orthopedic Surgery*, 272 Newbury St.
[Absent during 1918-19.]
- NATHAN C. FOOT, M.D., *Instructor in Pathology*, Harvard Medical School.
- TORR W. HARMER, M.D., *Assistant in Surgery*, 496 Commonwealth Ave.
[Absent during 1918-19.]
- OLIVER A. LOTHROP, M.D., *Assistant in Otolaryngology*, 101 Beacon St.

- CHARLES A. McDONALD, M.D., *Instructor in Neurology*, 106 Waterman St., Providence, R. I.
- AUGUSTUS RILEY, M.D., *Assistant in Anatomy and in Surgery*, 857 Beacon St.
- RICHARD M. SMITH, M.D., *Instructor in Pediatrics*, 329 Beacon St.
- JAMES H. YOUNG, M.D., *Assistant in Pediatrics*, 19 Baldwin St., Newton.
- JAMES M. GALLISON, M.D., *Assistant in Surgery*, 520 Commonwealth Ave.
- DELBERT L. JACKSON, M.D., *Assistant in Obstetrics*, 362 Commonwealth Ave.
- CHARLES H. LAWRENCE, JR., M.D., *Assistant in Medicine*, 522 Commonwealth Ave.
- HYMAN MORRISON, M.D., *Assistant in Medicine*, 520 Beacon St.
- OSCAR J. RAEDER, M.D., *Assistant in Neuropathology*, Boston State Hospital.
- LESLEY H. SPOONER, M.D., *Instructor in Bacteriology*, 260 Clarendon St.
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- JOHN B. SWIFT, JR., M.D., *Assistant in Obstetrics*, 443 Beacon St.
- IRVING J. WALKER, M.D., *Assistant in Surgery*, 527 Beacon St.
- HAROLD BOWDITCH, M.D., *Assistant in Medicine*, 60 Harvard Ave., Brookline.
- GEORGE CLYMER, M.D., *Assistant in Neurology*, 126 Bay State Road.
[Absent during 1918-19.]
- ARTHUR A. HOWARD, M.D., *Instructor in Pediatrics*, 520 Commonwealth Ave.
- HALSEY B. LODER, M.D., *Instructor in Surgery*, 522 Commonwealth Ave.
- GEORGE W. MORSE, M.D., *Assistant in Anatomy and in Surgery*, 30 Pineknay St.
- OSCAR R. T. L'ESPERANCE, M.D., *Assistant in Genito-Urinary Surgery*, 100 Boylston St.
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- GEORGE G. SMITH, M.D., *Assistant in Genito-Urinary Surgery*, 99 Commonwealth Ave.
- RAYMOND S. TITUS, M.D., *Assistant in Obstetrics*, 355 Marlborough St.
- PHILIP CASTLEMAN, M.D., *Instructor in Bacteriology*, City Hall Annex.

- FRANCIS F. HENDERSON, M.D., *Assistant in Surgery*, 39 Newbury St.
- OTTO J. HERMANN, M.D., *Assistant in Surgery*, 520 Commonwealth Ave.
- FREDERICK C. IRVING, M.D., *Assistant in Obstetrics*,
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- FOSTER S. KELLOGG, M.D., *Assistant in Obstetrics*,
[Absent during 1918-19.] 96 Bay State Road.
- WILLARD S. PARKER, M.D., *Assistant in Medicine*,
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- FRANK A. PEMBERTON, M.D., *Instructor in Gynecology*, 355 Marlborough St.
- WARREN R. Sisson, M.D., *Assistant in Pediatrics*, 329 Beacon St.
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- HARRY P. CAHILL, M.D., *Assistant in Otology*,
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- HARVARD H. CRABTREE, M.D., *Assistant in Genito-Urinary Surgery*, 17 Parker Hill Ave., Brookline.
- GEORGE D. CUTLER, M.D., *Assistant in Surgery*, 118 Bay State Road.
- RICHARD S. EUSTIS, M.D., *Assistant in Pediatrics*,
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- SOMERS FRASER, M.D., *Assistant in Surgery*,
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- JAMES H. MEANS, M.D., *Teaching Fellow in Medicine*,
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- JAMES P. O'HARE, M.D., *Instructor in Medicine*, 536 Commonwealth Ave.

- KARLTON G. PERCY, M.D., *Assistant in Pediatrics*,
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- EDWIN T. WYMAN, M.D., *Assistant in Pediatrics*,
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- RICHARD D. BELL, M.D., *Research Fellow in Biological Chemistry*,
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- ANDRÉ W. REGGIO, M.D., *Assistant in Surgery*, 40 Fairfield St.
- KURT H. THOMA, D.M.D., *Instructor in Dental Anatomy*,
43 Bay State Road.
- PAUL D. WHITE, M.D., *Teaching Fellow in Medicine*,
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- DELOS J. BRISTOL, JR., M.D., *Alumni Assistant in Obstetrics*,
24 McLean St.
- ALLAN R. CUNNINGHAM, M.D., *Boston Dispensary Research Fellow in Pediatrics*,
45 Bay State Road.
- HERBERT H. HOWARD, M.D., *Assistant in Genito-Urinary Surgery*,
24 Marlborough St.
- LAWSON G. LOWREY, M.D., *Instructor in Neuro-pathology and Psychiatry*,
74 Fenwood Road.
- FRANCIS M. RACKEMANN, M.D., *Alumni Assistant in Medicine*,
Mass. General Hospital.
[Absent during 1918-19.]
- WOLFERT G. WEBBER, M.D., *Charles Follen Folsom Teaching Fellow in Hygiene*,
Harvard Medical School.
[Absent during 1918-19.]
- SUMNER C. BROOKS, Ph.D., *Research Fellow in Tropical Medicine*,
Harvard Medical School.
- JACOB B. BRUCE, JR., M.D., *Assistant in Surgery*,
496 Commonwealth Ave.
- LEWIS W. HILL, M.D., *Alumni Assistant in Pediatrics*,
99 Commonwealth Ave.
- WILLIAM R. OHLER, M.D., *Assistant in Medicine*,
[Absent during 1918-19.] Boston City Hospital.
- ALBERT A. SHAPIRA, M.D., *Instructor in Anatomy*, 583 Beacon St.
[Absent during 1918-19.]
- ERNEST W. CHEYNEY, M.D., *Edward Hickling Bradford Fellow in Medical Research*,
159 St. Botolph St.

- HARRY A. NISSEN, M.D., *Alumni Assistant in Medicine*,
85 Abbotsford Road, Brookline.
- WILLIAM A. PERKINS, M.D., *Alumni Assistant in Surgery*,
Mass. General Hospital.
- HOWARD F. WEST, M.D., *Alumni Assistant in Medicine*,
Peter Bent Brigham Hospital.
- GOODWIN LEB. FOSTER, A.B., *Assistant in Biological Chemistry*,
Sharon.
[Absent during 1918-19.]
- ALFRED C. REDFIELD, Ph.D., *Instructor in Physiology*,
Harvard Medical School.
- EDWARD A. DOISY, S.M., *Teaching Fellow in Biological Chemistry*,
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[Absent during 1918-19.]
- KARL A. MENNINGER, M.D., *Assistant in Neuro-pathology*,
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- ALFRED C. CALLISTER, M.D., *Assistant in Surgery*,
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- REGINALD D. MARGESON, M.D., *Assistant in Anatomy*,
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- PAUL F. ORR, S.M., *Charles Follen Folsom Teaching Fellow in Hygiene*,
73 Gaineborough St.
- GEORGE H. JACKSON, JR., *Teaching Fellow in Histology and Embryology*,
Children's Hospital.

AUSTIN TEACHING FELLOWS

- SHUICHI NIWA, M.D., *in Bacteriology*, Harvard Medical School.
- ELMER WOODY, M.D., *in Surgery*,
[Absent during 1918-19.] 114 8th St., N. E., Washington, D.C.
- ROSCOE C. MORRIS, A.M., *in Physiology*, Harvard Medical School.

ADMINISTRATIVE OFFICERS OF THE MEDICAL SCHOOL

President: ABBOTT LAWRENCE LOWELL, LL.B., LL.D., PH.D.

Office, 5 University Hall, Cambridge.

Dean: DAVID L. EDSALL, M.D., S.D.

Office, Administration Building, Medical School. Office hours by appointment.

Assistant Dean: WORTH HALE, M.D.

Office, Administration Building, Medical School. Office hours, Tuesdays, Wednesdays, and Thursdays, 4 to 5 P.M., and by appointment.

Business Director: ROGER PIERCE, A.B.

Office, Administration Building, Medical School.

Director of Scholarships in the Medical School: FRANKLIN DEXTER, M.D.

Office, Room 386, Building D I, Medical School. Office hours, Mondays, 2 to 3.15 P.M., for appointments.

Director for Appointments for Medical Alumni: WILLIAM C. QUINBY, M.D.

Office, Administration Building, Medical School. Office hours, by appointment.

Adviser to Students in Harvard College preparing for the study of Medicine: CECIL K. DRINKER, M.D.

Office, 22 Evans Way, Boston. Office hours, 7 to 8 P.M., by appointment.

Chairman of the Committee on the Degree of Doctor of Public Health:

MILTON J. ROSENAU, M.D.

Office, Room 238, Building E II, Medical School. Office hours by appointment.

Chairman of the Division of Medical Sciences of the Faculty of Arts and Sciences: LAWRENCE J. HENDERSON, M.D.

Office hours by appointment. Telephone, Cambridge 3296-M.

Chief Clerk in the Dean's Office: MABEL A. OBER.

Office, Administration Building, Medical School. Office hours, from 9 to 1 and from 2 to 5 daily, except Saturdays; on Saturdays, from 9 to 1.

The Bursar's Office is on Quincy Street, Cambridge. It is open daily, except Sundays and holidays, from 9 to 1, for the receipt of fees, payments, and other financial business. A representative of the Bursar will be in the Administration Building at the Medical School at stated hours on certain days at the opening of each term for the receipt of fees from regular students.

COMMITTEE OF PROFESSORS

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- WALTER B. CANNON, M.D., *George Higginson Professor of Physiology.*
- HERRY A. CHRISTIAN, M.D., *Hersey Professor of the Theory and Practice of Physic.*
- BERNARD COOLIDGE, M.D., *Professor of Laryngology.*
- WILLIAM T. COUNCILMAN, M.D., A.M., LL.D., *Shattuck Professor of Pathological Anatomy.*
- GENE A. CROCKETT, M.D., *Walter Augustus Lecompte Professor of Otolology.*
- HERVEY CUSHING, M.D., S.D., F.R.C.S., *Moseley Professor of Surgery.*
- EROLD C. ERNST, M.D., A.M., *Professor of Bacteriology.*
- JOSEPH TO FOLIN, Ph.D., S.D., *Hamilton Kuhn Professor of Biological Chemistry.*
- WILLIAM P. GRAVES, M.D., *Professor of Gynaecology.*
- NORTH HALE, M.D., *Associate Professor of Pharmacology.*
- ALFRED HUNT, M.D., *Professor of Pharmacology.*
- FREDERIC T. LEWIS, M.D., *Associate Professor of Embryology.*
- BERT W. LOVETT, M.D., *John B. and Buckminster Brown Professor of Orthopedic Surgery.*
- HANK B. MALLORY, M.D., *Associate Professor of Pathology.*
- JOHN L. MORSE, M.D., *Professor of Pediatrics.*
- FRANKLIN S. NEWELL, M.D., *Professor of Clinical Obstetrics.*
- EDWARD H. NICHOLS, M.D., *Professor of Clinical Surgery.*
- CHARLES A. PORTER, M.D., *Professor of Clinical Surgery.*
- WILLIAM T. PORTER, M.D., LL.D., S.D., *Professor of Comparative Physiology.*
- ELTON J. ROSENAU, M.D., A.M., *Professor of Preventive Medicine and Hygiene.*
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- RICHARD P. STRONG, M.D., S.D., *Professor of Tropical Medicine.*

- EDWARD W. TAYLOR, M.D., *Professor of Neurology.*
PAUL THORNDIKE, M.D., *Clinical Professor of Genito-Urinary Surgery.*
ERNEST E. TYZZER, M.D., *George Fabyan Professor of Comparative Pathology.*
JOHN WARREN, M.D., *Associate Professor of Anatomy.*
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ERNEST E. TYZZER, M.D., *George Fabyan Professor of Comparative Pathology.*
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OTHER COMMITTEES

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Animals. — WILLIAM C. QUINBY, E. E. TYZZER, WILLIAM T. PORTER, and ROGER PIERCE.

Artistic and Memorial Objects. — J. COLLINS WARREN, DAVID L. EDSALL, CHARLES A. COOLIDGE, EDWARD W. FORBES, and ROGER PIERCE.

Degree of Doctor of Public Health. — MILTON J. ROSENAC, DAVID L. EDSALL, REID HUNT, ERNEST E. TYZZER, and WALTER B. CANNON.

Examinations. — ALGERNON COOLIDGE, PAUL THORNDIKE, REID HUNT, EDWIN A. LOCKE, and S. BURT WOLBACH.

Friday Afternoon Lectures, Fourth Year. — ALGERNON COOLIDGE, ROBERT W. LOVETT, and FRANK B. MALLORY.

Library. — FREDERIC T. LEWIS, J. BAPT BLAKE, DAVID CHEEVER, PERCY G. STILES, and S. BURT WOLBACH.

Microscopes. — HAROLD C. ERNST, JOHN L. BREMER, and HENRY A. CHRISTIAN.

Public Lectures. — HAROLD C. ERNST, J. BAPT BLAKE, WILLIAM P. COOKE, ROBERT W. LOVETT, FRANK B. MALLORY, and PERCY G. STILES.

Scholarships and Students Aid. — DAVID L. EDSALL, FRANKLIN DEXTER, REID HUNT, and WALTER B. CANNON.

Student Affairs. — ALGERNON COOLIDGE, JOHN L. BREMER, and NATHAN C. FOOT.

HARVARD MEDICAL SCHOOL

BOSTON

GENERAL STATEMENT

The Harvard Medical School started as a branch of the University in 1782 when three professorships of medicine were established. The first degrees in medicine were conferred in 1788. Before 1811, the degree conferred was that of Bachelor of Medicine; after that date the degree of Doctor of Medicine was established. The first Medical School was built in Boston in 1815. In 1906, the Medical School moved into its quarters on Longwood Avenue. For the construction and endowment of these buildings the School is indebted to the generosity of Mrs. Collis P. Huntington, Messrs. J. Pierpont Morgan, John D. Rockefeller, David Sears, and a number of other benefactors. A number of hospitals have been constructed on the grounds adjacent to the Medical School. A statement in regard to these hospitals and the other hospitals in which teaching is done will be found on pages 90-93 of this catalogue.

In 1910, under the supervision of the Department of Preventive Medicine and Hygiene, courses leading to a degree of Doctor of Public Health were established.

In 1912 the Graduate School of Medicine was established to take charge of the graduate instruction throughout the year, which had previously been given by the Harvard Medical School under the Courses for Graduates and the Summer School of Medicine. The Graduate School of Medicine will also take charge of all special students who are not candidates for the degree of Doctor of Medicine. The School of Tropical Medicine also offers instruction in the Medical School.

The academic year begins on the Monday preceding the last Wednesday in September, and ends on the Thursday preceding the last Wednesday in June. There is a Christmas recess from December 23 to January 2 inclusive, and a recess of one week's duration in April.

BUILDINGS AND HOSPITAL FACILITIES

The Medical School buildings occupy eleven acres on Longwood Avenue, and are five in number: one is designed for administrative and for laboratory purposes. The administration building contains the necessary offices, several lecture rooms, the Library, and the Warren Anatomical Museum. The laboratory buildings provide extensive accommodations for various departments grouped in the buildings as follows:— (1) anatomy, comparative anatomy, histology and embryology; (2) physiology, comparative physiology, biological chemistry, and theory and practice of physics; (3) pathology, bacteriology, neuropathology, surgical pathology and tropical medicine; (4) preventive medicine and hygiene, pharmacology, comparative pathology, and surgery.

The laboratory buildings are all constructed on one general plan—two parallel wings united by an amphitheatre. The rooms in the various wings have been designed on a unit system, which will greatly simplify any changes required by future growth or by uses other than those for which the rooms were originally designed. These buildings provide an equipment for teaching and research in various branches of medical science which as a whole is probably unequalled.

At the present time the clinical instruction is carried on in the wards and out-patient departments of the Peter Bent Brigham Hospital, Infants' Hospital (Rotch Memorial), Children's Hospital, and Collis P. Huntington Memorial Hospital, located on grounds adjacent to the Medical School; Massachusetts General Hospital, Boston City Hospital, Boston Lying-in Hospital, Boston Dispensary, McLean Hospital, Boston State Hospital, Hethopathic Hospital, Massachusetts Charitable Eye and Ear Infirmary, Boston Hospital for Women, Boston Consumptives' Hospital. For a detailed statement of these hospitals, see page 90.

HARVARD MEDICAL SCHOOL BOSTON

REQUIREMENTS FOR ADMISSION

As candidates for the Degree of Doctor of Medicine the School receives the following:

- I. Graduates in arts or science of approved colleges or scientific schools.
- II. Students who have completed two years of work in a college or scientific school of high rank, provided they present certificates that they have maintained a rank in the first third of their class.

LANGUAGE AND SCIENCE REQUIREMENTS *

(a) All applicants must present evidence that they have such knowledge of English as is ordinarily required of all candidates for a degree in an approved college and that they have a reading knowledge of French or of German.

(b) They must present evidence that they have college credits for at least a year's work in general inorganic chemistry, in physics and in biology, and for a half-year's work in organic chemistry.

To meet the science requirements satisfactorily, time credit as follows should be secured:

Inorganic Chemistry: A minimum of eight semester hours, of which at least four should be laboratory work.

Organic Chemistry: A minimum of four semester hours, of which at least two should be laboratory work.

Physics: A minimum of eight semester hours, of which at least two should be laboratory work.

Biology: A minimum of eight semester hours (including not less than four hours of zoology), of which at least four should be laboratory work.

These requirements are to be satisfied in full before matriculation.

* It is assumed that before admission to an acceptable college a four years' course in High School or its equivalent will have been completed.

Partial deficiencies in single subjects may be made up prior to admission courses in the Harvard Summer School.

Students are requested to apply for admission before July 1st using blanks to be furnished by the Secretary.

Students registering in the Medical School for the first time will meet at the amphitheatre in the Administration Building, on Monday, preceding the last Wednesday in September, at 10 A.M.

The Administrative Board reserves the right to refuse all applicants needing such a number as can be effectively taught.

ADMISSION TO ADVANCED STANDING

Students who began their medical studies in approved medical schools may be admitted to advanced standing and become candidates for the degree of M.D. under the following conditions:—

They must have fulfilled the requirements for admission enumerated on the preceding page prior to their matriculation as students of medicine. They must be vouched for as promising men by the Dean or other responsible officer of the School from which they come.

They must furnish a satisfactory certificate of time spent in medical study, successfully completed, at least equal to that spent by the class to which they seek admission.

They must furnish satisfactory certificates that they have done satisfactory laboratory and practical work in the subjects already pursued by the class to which they seek admission.

They must pass examinations, or receive credit for all courses required to have been passed by the class which they seek to enter.

Graduates of other medical schools of recognized standing may be admitted to advanced standing in accordance with the above regulations.

A student who has fulfilled the other requirements, but has not received credit or passed an examination in all of the courses already pursued by the class which he seeks to enter, may be tentatively admitted by the Dean, on the understanding that the approval of the head of the department in each subject in which he has not received credit or passed an examination shall be secured during his first year at this School. He may pursue his studies with the class to which he was admitted, but until he shall have made up his deficiency he shall not be allowed to be a candidate for a degree.

The minimum time of residence at this School for candidates for the degree of M.D. shall be one year; all candidates for the degree of M.D. must perform in full the work of the fourth year of the regular curriculum.

GENERAL REGULATIONS

Students are divided into four classes according to their time of study and proficiency. No student may advance with his class if he has failed to pass satisfactorily any essential part of the requirements of the previous year.

The Faculty reserves the right to require the withdrawal of any student at any time whenever in the opinion of his instructors it is manifest that he is incompetent for his work, or for any reason is unfit to continue his course.

In order that the time of study shall count as a full year students of all classes must register on Monday, the first day of the session.

Students are required not to engage as hospital assistants during term time, except in so far as required by the School curriculum or allowed in each case by the Administrative Board.

EXAMINATIONS

Each student will receive a rating in each course based upon examinations or other tests as determined by each Department. These marks shall be on the scale of 100, the pass mark being 75.

At the end of each School year a Board consisting of members of each department giving the principal courses during that year, shall review each student's work for the year, promote those evidently fitted into the next class; warn or censure any student whose work has been unsatisfactory; and recommend to the Administrative Board that such students as are not likely to keep up with their class be dropped or dismissed.

At the end of the fourth year a general examination including the subjects of the third and fourth years will be required of all candidates for the degree of M.D. (Beginning in 1920 the General Examination will include all subjects of the four years' course.)

Before taking the General Examination a student must have a satisfactory record in each of the required subjects of his course. In certain cases, by special permission, he may be allowed to take the examination before completing minor requirements for the degree.

The Committee conducting the General Examination may give such written or oral tests as it considers best for determining an applicant's fitness for receiving the degree and for honors.

No student is allowed to anticipate the examinations in the regular course of studies of his year except by special permission of the Administrative Board.

After two failures to pass an examination each student must pay a fee three dollars at the Dean's Office before appearing for each additional examination in the same subject.

Any student who fails three times in the General Examination will be barred from further attempts.

DEGREES

DEGREE OF DOCTOR OF MEDICINE

Every candidate for the degree of DOCTOR OF MEDICINE at this University must be at least twenty-one years of age, and of good moral character. He must fulfil all the requirements for admission to this Medical School; give evidence of having studied in a recognized Medical School at least four full years, of which one year must be spent in the regular fourth-year course of this School; pass all the required examinations; have dissected the three parts of the body to the satisfaction of the demonstrator; have taken charge of and reported on twelve cases in obstetrics under supervision and instruction; and furnish evidence of having engaged in the practical exercises in Medicine and Surgery.

The degree of Doctor of Medicine *cum laude* or *magna cum laude* may be given to students of highest rating in the class on recommendation of the Committee on Examinations.

For special and approved purposes students may be allowed to take a portion of their work elsewhere than at the Harvard Medical School provided that the application be approved by the Dean in consultation with the Administrative Board and the head of a Department, and provided that the student pass an examination on this work after its completion conducted by a member of the Faculty of the Harvard Medical School.

Every candidate for the degree of M.D. must make application for it in writing on blanks furnished at the Dean's office, on or before *May 1* of the year in which they propose to graduate.

DEGREE OF DOCTOR OF PUBLIC HEALTH

The degree of Doctor of Public Health is open to holders of the degree of Doctor of Medicine from the Harvard Medical School or other recognized Medical Schools, and to other properly qualified persons. Candidates for the degree of Doctor of Public Health must spend not less than one year in work upon a special subject, approved by the Committee on the Degree of Doctor of Public Health, and present a thesis containing some original research acceptable to the Faculty of Medicine. Candidates for this degree may be given credit for any course offered in any department

of the University, provided it has the approval of the Faculty of Medicine, and candidates from other institutions may be admitted to advanced standing. A minimum of one year in residence shall be required of all candidates for the degree of Doctor of Public Health. Information in regard to this degree may be had from Professor M. J. ROSENAP, Chairman of the Committee on the Degree of Doctor of Public Health.

Candidates for this degree must make application in writing, on blanks furnished at the Dean's office, on or before *May 1* of the year in which they propose to graduate.

DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

There has been established within the Faculty of Arts and Sciences a Division of Medical Sciences consisting of members of the Faculties of Medicine and of Arts and Sciences, who are to recommend candidates for the degrees of A.M. and Ph.D. to the Faculty of Arts and Sciences. Work in Medical Sciences leading to these degrees may be carried on in several of the laboratories of the Medical School by properly qualified students.

Candidates for the degree of Master of Arts must be Bachelors of Arts of Harvard College, or Bachelors of Arts of other colleges who shall be recommended by the Faculty of Arts and Sciences. Candidates must pursue an approved course of study in medical science for at least one year.

Candidates for the degree of Doctor of Philosophy must fulfil certain preliminary requirements, must devote to approved advanced studies not less than two years — at least one of which must be spent in residence at this University, and must pass general examinations and present an account of original work in an accepted thesis, before being granted the degree.

Further information concerning these degrees may be obtained from Assistant Professor LAWRENCE J. HENDERSON, Chairman of the Division of Medical Sciences, 4 Willard Street, Cambridge, Mass.

FEEES AND EXPENSES

DEGREE OF DOCTOR OF MEDICINE

The fees are :—For matriculation, five dollars; for instruction (including laboratory charges except breakage, damage and loss of apparatus), two hundred and twenty-five dollars for each year (if in two payments, at the first, one hundred and thirty-five dollars; at the second, ninety dollars); for a half-year alone, one hundred and thirty-five dollars. The matriculation fee and the instruction fee (if in two payments, the first instalment

thereof) are to be paid to the Bursar† punctually at the beginning of the academic year, without the presentation of a bill; and the second instalment is to be paid on or before January 31. On or before January 31, first-year students are to make a deposit of ten dollars with the Bursar to cover charges for breakage, damage and loss of apparatus, during the first and second years in accordance with the requirements established by the several departments in which they occur. If, at the end of a student's first year, his breakages, etc., have been so great as to render the deposit in the Bursar's judgment insufficient to cover probable charges for the second year, a further deposit will be required at the beginning of the second year. A student may rent a microscope from the School upon application to the Committee on Microscopes. A deposit of one dollar with the Dean will entitle the student to the use of a locker in the School buildings.

No degree can be conferred until all dues to the University have been discharged. Each student whose dues remain unpaid on the day fixed for their payment is required at once to cease attending lectures and using laboratories or making use of any other privileges as a student until his financial relations with the University have been arranged satisfactorily to the Bursar. Failure to comply with this rule is deemed cause for final separation from the University.

BOND REQUIRED OF STUDENTS

Every student is required to file with the Bursar on his entrance to the School a bond of *fifty dollars*, executed by two sufficient bondsmen (one of whom must be a citizen of the United States), or to deposit fifty dollars in money, to cover the loss or injury of any property belonging to the University, or for which it is responsible. Blank forms of bonds may be obtained at the Dean's Office or from the Bursar. No officer or student of the University is accepted as a bondsman. Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School and have subsequently received their bond from the Bursar.

DEGREE OF DOCTOR OF PUBLIC HEALTH

A fee of \$150 annually is charged for tuition, and \$5 for matriculation. Of this amount, \$95 must be paid to the Bursar at the beginning of the academic year without the presentation of a bill; the remaining \$60 must be paid on or before January 31. No degree can be conferred until all dues to the University have been discharged.

† The Bursar's office is at No. 14 Quincy Street, Cambridge. Hours 9-1.

DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

For these degrees, a fee of \$200 is charged for tuition, in each academic year, payable in four instalments of \$50 each, respectively on or before the opening day of the academic year, on or before November 23, February 10, and the day following the spring recess in Cambridge. No bill is sent for these instalments. No degree can be conferred until all dues to the University have been discharged.

STILLMAN INFIRMARY FEE

Not later than October 1 in each academic year, any student may pay to the Bursar the sum of four dollars for the maintenance of the Stillman Infirmary; and, on the order of a physician, every student who has taken advantage of this opportunity will be given, in case of sickness, in return for the fee, a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year.

WITHDRAWAL FROM THE SCHOOL

Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Administrative Board, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission will date from the reception by the Dean of a written notice of the student's withdrawal from the School. *No degree can be granted until the student has paid the full tuition fee for each year (first, second, third, fourth) in which he has been registered as a member of the School.*

If a student withdraws from the School for part of a year for good and sufficient reason as determined by the Faculty, he may leave his fees deposited with the Bursar to be used at some later date for instruction equivalent to that which he missed by his withdrawal. If a student shortens his four years' work by working in the Summer School of Medicine, he must still pay a full tuition fee for each year he is registered as a member of the School.

First Year	Second Year	Third Year	Fourth Year	Prescribed	Elective
Anatomy Histology and Embryology Physiology Biochemistry	Bacteriology Pathology Anatomy Pharmacology Physical Diagnosis Clinical Pathology Surgical Pathology Surgical Technique Medicine Surgery Obstetrics Neurology	Medicine Surgery Obstetrics Pediatrics Preventive Medicine and Hygiene Dermatology Syphilology Neurology Psychiatry Genito-Urinary Surgery Legal Medicine Orthopedic Surgery Gynaecology Laryngology	Medicine 1, 2, 3 (1) or 4 (4) Pediatrics 1 (4) Surgery 1, 2, or 3 Orthopedic Surgery 1 (4) Obstetrics 1 (4) Gynaecology 1 (4) Ophthalmology 1 (4) Otolaryngology 1 (4) Friday afternoons devoted to class exercises.	Anatomy 1 (4), 2, 3, 4 (4) Physiology 1 (4), 2 (Research) Comparative Physiology 1, 2 (4) Biochemistry 1 (4) Bacteriology 1 (4) Pathology 1, 2, 3, 4 (4) Comparative Pathology 1, 3, 4 (4), 2 (Research) Preventive Medicine and Hygiene 1 (4) Pharmacology 1 (4) or 4 Medicine 4 (4) Roentgenology (4) Pediatrics 2, 3, 4 (4) Surgery 4, 6 (4), 5 (4), 7 (Research) Orthopedic Surgery 2, 3 (4) Gynaecology 2 (4) or 4 Dermatology 1, 2 (4), 3 (4) Syphilology 1 (4) Neuropathology 1, 2 (4) or 4 Neurology 1(4), 2 (Special) Psychiatry 1 (4) or 4 Ophthalmology 2 (4), 3 (4) Otolaryngology 2 (4), 3 (4) Laryngology 2 (4)	

METHODS OF INSTRUCTION

The following methods of instruction are adopted in the several departments:—

NOTE.—The figures at the right of the page indicate as accurately as can be ascertained the number of hours of instruction which each student receives in the different courses.

ABBREVIATIONS USED IN THE FOLLOWING PAGES, AND IN THE
TABULAR VIEWS

B.C.H.	= Boston City Hospital.
B.Co.H.	= Boston Consumptives' Hospital.
B.D.	= Boston Dispensary.
B.S.H.	= Boston State Hospital (Pierce and Austin Farms).
B.L.H.	= Boston Lying-in Hospital.
C.H.	= Children's Hospital.
E. and E.I.	= Massachusetts Charitable Eye and Ear Infirmary.
F.H. for W.	= Free Hospital for Women.
H.M.S.	= Harvard Medical School.
H.M.H.	= Huntington Memorial Hospital.
I.H.	= Infants' Hospital (Rotch Memorial).
McL.H.	= McLean Hospital.
M.G.H.	= Massachusetts General Hospital.
P.B.B.H.	= Peter Bent Brigham Hospital.
P.H.	= Psychopathic Hospital.
S.D.B.C.H.	= South Department, Boston City Hospital.
S.O.P.D.	= Surgical Out-Patient Department.

Anatomy

JOHN L. BREMER, M.D., *Associate Professor of Histology.*

FREDERIC T. LEWIS, M.D., *Associate Professor of Embryology.*

*JOHN WARREN, M.D., *Associate Professor of Anatomy.*

DAVID CHEEVER, M.D., *Assistant Professor of Surgery, and Associate in Anatomy.*

*HARRIS P. MOSHER, M.D., *Assistant Professor of Laryngology, and Associate in Anatomy.*

*ALEXANDER S. BEGG, M.D., *Instructor in Anatomy.*

ROBERT M. GREEN, M.D., *Instructor in Anatomy.*

* Absent on war service.

- *ALBERT A. SHAPIRA, M.D., *Instructor in Anatomy.*
 KURT H. THOMA, D.M.D., *Instructor in Dental Anatomy.*
 FRANK A. HAMILTON, M.D., *Assistant in Anatomy.*
 REGINALD D. MARGESON, M.D., *Assistant in Anatomy.*
 GEORGE W. MORSE, M.D., *Assistant in Anatomy.*
 AUGUSTUS RILEY, M.D., *Assistant in Anatomy.*
 *EDWARD H. RISLEY, M.D., *Assistant in Anatomy.*
 BENJAMIN E. WOOD, M.D., *Assistant in Anatomy.*
 GEORGE H. JACKSON, JR., *Teaching Fellow in Histology and Embryology.*
 — — —, *Teaching Fellow in Histology and Embryology.*
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— — —, *Austin Teaching Fellow in Histology and Embryology.*

COMPARATIVE ANATOMY

- — —, *James Stillman Professor of Comparative Anatomy.*
 EDWARD A. BOYDEN, Ph.D., *Instructor in Comparative Anatomy.*
 LEONARD D. NATHAN, D.M.D., *Assistant in Comparative Anatomy.*

In the department of Anatomy instruction is given in Anatomy, Comparative Anatomy, Histology and Embryology. The department occupies the Morgan Anatomical Building, the dissecting rooms being in the wing designated BI, and the laboratories for Histology, Embryology, and Comparative Anatomy in the wing BII. There are separate rooms for fourth-year and graduate students and for various kinds of technical work. The class work is carried on by sections in unit rooms, designed to accommodate either twelve or twenty-four students. There is a large library which contains complete files of the most important anatomical and morphological journals, together with many standard works of reference, and in an adjoining room there is a collection of about ten thousand pamphlets. A card catalogue and a classified bibliography give ready access to the literature.

The laboratory offers exceptional facilities for work in human and comparative anatomy and embryology.

The Embryological Collection is a unique feature of the laboratory. It comprises over two thousand series of sections of carefully selected vertebrate embryos, and affords therefore opportunities for research in comparative embryology such as cannot be found elsewhere. The collection includes sixty series of sections of human embryos, several of which are of exceptional value, among them being two of the very youngest stages of man yet obtained. The collection of embryological models contains the standard series and many unique original models.

* Absent on war service.

REGULAR COURSES

FIRST YEAR

<i>October, November, December, and January</i>		HOURS
Lectures. Assoc. Professors BREMER and LEWIS and Dr. GREEN.		
<i>Eleven lectures a week.</i>		176
Demonstrations. <i>To sections of the class, at the pleasure of the instructors.</i>		
Laboratory work. <i>Five and one-half hours, five times a week.</i>		440

These courses are intended to teach human anatomy, both gross and microscopic, together with the essentials of human embryology. Half of the time is devoted to work in the dissecting room, the other half to work in the histological and embryological laboratories. In the study of gross anatomy, each student makes a complete dissection of one-half of the human body, and all of the class dissect the same part at the same time. Two men will be assigned to the same subject, and will work together during the course. The study of the skeleton is carried on with the dissection, and each student will be provided with a box of bones which may be kept throughout the course. There will be daily lectures and demonstrations which are arranged to correspond as closely as possible with the work in the dissecting room. These lectures not only will serve as a guide to the regular work in the dissecting room, but also will be used to emphasize those details of human anatomy which the student cannot easily study for himself in his own dissection. Special dissections made by prosectors from the second-year class, frozen sections, and various anatomical specimens and preparations will be displayed each day to illustrate and supplement that part of the subject treated in the lecture, or about to be studied in the dissecting room. Students are urged to examine these specimens carefully, and to discuss them informally with the instructors. Students will be quizzed each week on their work in the laboratory by the instructors in charge of their section. There will also be a certain number of written tests on Saturday mornings and one or two oral practical examinations before the final practical examination.

The part of the course dealing with microscopic anatomy is a study of cells, tissues, and organs, from the developmental standpoint. Cell structure and the fundamental tissues are considered first. This is followed by a study of chick embryos of 30 and 48 hours and pig embryos of 40 days, in which special stress is laid on the origin and growth of the different organs. During the remainder of the course the organs of the adult are studied in succession. In connection with the uterus, the human placenta and fetal membranes are considered. The month of January is devoted to the central nervous system and sense organs.

Microscopes.—Every student is strongly urged to purchase a microscope, which is a necessity in this and other courses in the School, and constantly useful in later years. The instructors will gladly advise students in regard to such purchases. Those not thus provided may rent microscopes at four dollars for the course.

Second-Year Anatomy

SECOND YEAR

February and March

Laboratory work to sections of the class, *four hours per week.* 36

The course in second-year anatomy begins on the first of February and lasts for nine weeks. The class will be divided into three sections, and each section will have approximately four hours per week. The work will consist chiefly of the careful study and drawing of selected frozen sections of the human body. Anatomical charts, special dissections, and preparations will be displayed in the laboratory to illustrate the various structures seen in the sections. The drawings are to be handed in at frequent intervals for correction, and they will be discussed with each student. There will be also frequent informal, individual quizzes and discussions as the work progresses. The work in the laboratory is planned to be carried on in close coöperation with the clinical courses in medicine and surgery, and the students are strongly urged to compare the anatomical structures seen in the study of the frozen sections, especially of those through the body cavities, with the conditions found in the physical examination of patients in the hospital wards and clinics. This association between the anatomical laboratory and the clinical courses should be regarded as of great practical importance. The course is also intended to serve as a topographical review of the work of the first year, and there will be a final written examination which will cover the work in both the first and second-year courses in anatomy.

ELECTIVE COURSES

A special course in vertebrate embryology is given during the second term; this has been accepted by the Faculty of Arts and Sciences, and is open to students of the academic departments. For this and other electives see page 67.

INVESTIGATION

Accommodations are furnished in the laboratory for students who wish to pursue special or advanced work. Special facilities are offered to investigators, who will receive such personal aid as may be necessary or advantageous.

Physiology

*WALTER B. CANNON, M.D., *George Higginson Professor of Physiology.*

CECIL K. DRINKER, M.D., *Assistant Professor of Physiology.*

PERCY G. STILES, Ph.D., *Assistant Professor of Physiology.*

*ALEXANDER FORBES, M.D., *Instructor in Physiology.*

ALFRED C. REDFIELD, Ph.D., *Instructor in Physiology.*

———, *Assistant in Physiology.*

ROSCOE C. MORRIS, A.M., *Austin Teaching Fellow in Physiology.*

First Year.—Three principles govern the presentation of the subject.

1. Enforcement of the utility of thinking physiologically in medical work.

2. Accomplishment of experiments of sufficient refinement to demonstrate the extent to which biological processes can be measured with physical instruments.

3. Training in the actual technique of certain physiological measurements which have entered medicine through physiology and which illustrate fundamental physiological facts.

The first of these principles is emphasized constantly in the lectures, which are given four or five times weekly. Each member of the staff takes part in the lecturing, presenting phases of the subject in which his particular interests lie. In this way during the past year Dr. DRINKER covered the physiology of the muscle, central nervous system, heart and respiration, Dr. REDFIELD the special sense organs, renal secretion, etc. By such shifts the students meet different points of view and the narrowness of the old time lecture system is somewhat relieved. Supplementing the lectures there are one and frequently two oral conferences a week, the students being divided into groups of twenty-four for the purpose. By taking these groups in rotation each student is soon known personally by the instructors, a matter of great importance in the cooperation between teacher and student essential for good laboratory work.

The construction of the laboratory makes division of the class into groups of twenty-four men very easy and convenient. After six weeks work upon nerve and muscle in the frog, material invaluable for the teaching of general and special physiology as well as for training in the technique of recording, stimulating, etc., a very positive division for work is made and throughout the rest of the term the different groups, each in charge of an instructor, are engaged in different fields of physiology. Thus at the same time men in one section perform experiments in alveolar air analysis, another section work upon blood pressure and pulse in man.

* Absent on war service.

third upon blood pressure in the cat, a fourth upon absorption from the intestine in the cat. In order to present experiments of true refinement, borate apparatus is a frequent requirement. In our estimation no course in medical physiology performs its duty which does not place in the hands of the students as many opportunities to use highly accurate apparatus, and to learn highly intricate technique as is possible. Such experiments must be subject to frequent revision and modification as investigators improve and amplify them, and to achieve constant revision is essential to represent the different fields in physiology by as small a collection of apparatus as is possible. Otherwise alteration of experiments comes prohibitive except at very rare intervals, and improvements in the laboratory, a vital section of the work, do not keep pace with the standards set by investigation. The small group method of laboratory instruction meets the demands of an advancing science as no other method can do.

All experiments upon mammals, and most of the experiments carried out in the students themselves, since they are not directly correlated with the lectures, are preceded by a demonstration of the technique involved in their successful execution. This insures a high percentage of successful results and a speed in carrying through the work which permits the incorporation of many points usually omitted. On the day following the completion of such experiments as blood pressure or renal secretion in the cat, the entire morning is given over to a conference upon the results obtained, each group of four men being required to present tracings and answers to the questions which are appended to every set of experimental sections. A similar morning of review follows each major group of experiments such as those dealing with alveolar air and blood gas analysis. Many subjects heretofore demonstrated to the entire class have been incorporated in the regular experimental work. About ten special demonstrations are given. These do not take place in the lecture amphitheatre. They are given as laboratory exercises to each group of twenty-four men. The anaesthetized animal is brought in, the type of anaesthesia discussed, the operation outlined and performed, and the experiment carried through in such a way that each man can acquaint himself with each step. A running comment from the instructor accompanies these exercises, of which a record must be presented in the laboratory notebook. These books are turned in every two weeks, inspected, marked and returned. During the four-months term each student receives four fifteen-minute oral examinations, meeting each of his instructors in turn. At the close of the year men whose work has not been of good quality are required to take a more extensive oral examination and the entire class finishes work with a formal written examination. Students who have had, before

entering the course, a large part of the laboratory work may be permitted to coöperate with members of the staff in special investigations. Such students may omit certain parts of the laboratory work but are compelled to take all examinations, and to submit notebooks on any required work.

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 69.

FIRST YEAR (Second half)

HOURS

Laboratory experiments. Asst. Professors DRINKER and STILES, Dr. REDFIELD, and Mr. MORRIS. <i>Daily.</i>	180
Conferences, written tests, lectures and special demonstrations. Asst. Professors DRINKER and STILES, Dr. REDFIELD, and Mr. MORRIS.	140

Comparative Physiology

WILLIAM T. PORTER, M.D., LL.D., S.D., *Professor of Comparative Physiology.*

I. *Physiological Research.* Students qualified for research will pursue their investigations under the immediate direction of the professor in charge.

II. *Physiological Conference.* Professor PORTER. Demonstrations with informal discussions of selected problems in physiology. *Mondays, 5 to 6 P.M., throughout the year.*

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 69.

Biological Chemistry

OTTO FOLIN, Ph.D., S.D., *Hamilton Kuhn Professor of Biological Chemistry.*

CYRUS H. FISKE, M.D., *Assistant Professor of Biological Chemistry.*

LAWRENCE J. HENDERSON, M.D., *Assistant Professor of Biological Chemistry.*

*GOODWIN LEB. FOSTER, A.B., *Assistant in Biological Chemistry.*

*EDWARD A. DOISY, S.M., *Teaching Fellow in Biological Chemistry.*

*RICHARD D. BELL, M.D., *Research Fellow in Biological Chemistry.*

*HENRY LYMAN, M.D., *Research Fellow in Biological Chemistry.*

First Year.—The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of

* Absent on war service.

ical substances which are to be found in animals and plants, and of general principles and more important facts of physiological chemistry. The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

Inferences and discussions of selected topics supplement the main part of the course.

Fourth Year. — For a description of the fourth-year courses offered in the department, see page 70.

FIRST YEAR (Second half)		HOURS
LECTURES. Professor FOLIN and Asst. Professor FISKE. <i>One hour, five times a week.</i>		80
LABORATORY work. Professor FOLIN and Asst. Professor FISKE. <i>Two and one-half hours, five times a week.</i>		200

Bacteriology

- WILLIAM C. ERNST, M.D., *Professor of Bacteriology.*
 HENRY WOLBACH, M.D., *Associate Professor of Bacteriology and Pathology.*
 WELAND FLOYD, M.D., *Silas Arnold Houghton Assistant Professor of Bacteriology.*
 WILLIAM T. BOVIE, Ph.D., *Instructor in Bacteriology.*
 JOHN G. PAGE, M.D., *Instructor in Bacteriology.*
 ALFRED CASTLEMAN, M.D., *Instructor in Bacteriology.*
 WILEY H. SPOONER, M.D., *Instructor in Bacteriology.*
 ROBERT E. STEELE, M.D., *Instructor in Bacteriology.*
 TRACE K. BOUTWELL, M.D., *Assistant in Bacteriology.*
 HENRY J. PERRY, M.D., *Assistant in Bacteriology.*

YOSHIO NIWA, M.D., *Austin Teaching Fellow in Bacteriology.*

Second Year. — Required bacteriology is taught by lectures and practical laboratory work. The lectures treat of the general subject and of methods of practical work. In the laboratory each student has an opportunity to become familiar with the simpler methods of manipulation and staining which are of especial clinical value, and with the more prominent of the pathogenic bacteria.

Fourth Year. — For a description of the fourth-year courses offered in the department, see page 70.

SECOND YEAR

HOURS

Lectures. Professor ERNST. <i>Daily, except Saturdays, during October, November, and December.</i>	60
Laboratory work. Professor ERNST, Asst. Professor FLOYD, and Drs. PAGE, STEELE, BOWTWELL, and PERRY. <i>Two to three hours daily during October, November, and December.</i>	180

Pathology

- WILLIAM T. COUNCILMAN, M.D., LL.D., *Shattuck Professor of Pathological Anatomy.*
 FRANK B. MALLORY, M.D., *Associate Professor of Pathology.*
 S. BURT WOLBACH, M.D., *Associate Professor of Pathology and Bacteriology. Chairman of the Department.*
 JAMES H. WRIGHT, M.D., S.D., *Assistant Professor of Pathology.*
 WARD H. COOK, M.D., *Instructor in Pathology.*
 ERNEST W. GOODPASTURE, M.D., *Instructor in Pathology.*
 NATHAN C. FOOT, M.D., *Instructor in Pathology.*
 FRANZ R. WULFAERT, M.D., *Assistant in Pathology.*

Second Year.—The course in Pathology consists of laboratory work and lectures. The basis of the laboratory work is the systematic course in pathological histology. In connection with this there are demonstrations of fresh material and museum specimens and experiments on animals bearing on the subjects studied. In this work the students are divided into small sections. The demonstrations are given to these sections and the experimental work on anaesthetized animals is carried out by the sections under the direction of an instructor who superintends this branch of the work. The demonstrations and experimental work are given in rooms adjoining the main laboratory which are adequately provided with apparatus. Both the demonstrations and experiments are in connection with the subjects which are being studied. Lectures are given five days in the week, the object of the lectures being rather to expand and coördinate the knowledge which the student is acquiring by his study of material than to impart new information. During the entire period of the course groups of students are sent to the various hospitals to see and assist in post-mortem examinations. Each group prepares microscopical specimens of the tissues from each autopsy they attend, and immediately afterwards meets for a conference with one of the instructors and the whole case is reviewed and discussed. At these conferences the clinical history of the case is read and as far as possible the pathological findings are correlated

the clinical features. No attempt is made to separate the subject of pathology into general pathology and pathological anatomy, but the subject is studied as a whole. The more important organs of the body are studied, towards the end of the course with reference to their special pathology, particularly the blood, liver, spleen, kidneys, pancreas and placenta. In teaching the student is taught methods of work, is given material, and directed, but he is taught to work independently. Tumors and other material coming from the surgical clinics are made full use of in the course.

Saturdays conferences and recitations are substituted for the regular laboratory work.

In the forenoons of the third and fourth weeks of January, Professor COUNCILMAN and Assistant Professor FABYAN give a course of lectures and laboratory exercises on animal parasites, particularly the protozoa and the lesions produced by them.

During the afternoons of December and January two courses are given in the special pathology of neurology and surgery; the courses constitute a valuable introduction to the clinical work required in these subjects in the third year.

These courses are:—

Fifteen demonstrations and laboratory exercises on the pathology of the nervous system. (See Neuropathology.)

Twenty laboratory exercises in surgical pathology. (See Surgery.)

Third Year.—Clinical pathological demonstrations are held two hours a week throughout the year in the pathological amphitheatre of the B.H. Autopsy material is presented along with the case records.

Fourth Year.—For a description of the fourth-year courses offered in the department, see page 70.

SECOND YEAR

HOURS

Lectures. Professor COUNCILMAN, Assoc. Professors MALLORY and GOLDBACH, and Asst. Professor WRIGHT. *Daily for fourteen weeks, October, November, December, and January (first two weeks only).*

84

Laboratory work. Professor COUNCILMAN, Assoc. Professor WOLBACH, Drs. COOK, GOODPASTURE, and FOOT. *Three hours daily during the forenoons of October, November, December, and twelve hours a week during first half of January.*

252

Demonstrations and laboratory work. Professor TRYZZER and Asst.

Professor FABYAN. *Twelve hours a week, latter half of January.*

25

Demonstration of autopsy material. Asst. Professor J. H. WRIGHT. (M.G.H.) <i>One hour a week.</i>	16
Demonstration of autopsy material. Assoc. Professor WOLBACH. (P.B.B.H.) <i>One hour a week.</i>	16
Surgical Pathology. Professor NICHOLS. <i>Afternoons in January.</i>	36

THIRD YEAR

Clinical pathological demonstrations. Assoc. Professor WOLBACH. (P.B.B.H.) <i>Two hours a week, throughout the year.</i>	64
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Legal Medicine

GEORGE B. MAGRATH, M.D., *Instructor in Legal Medicine.*

Third Year. — A systematic course of lectures is given at the Medical School.

Fourth Year. — Optional course; second half-year. (1) Instruction in the pathological conditions met with in death following injury, and in sudden death, by the case method, with special reference to the clinical and the medico-legal aspects in each case. Exercises based on autopsy, with discussion of the case, and held in the post-mortem room of the North Mortuary.

(2) Legal Medicine: medicine in its relation to the requirements of law. Systematic lectures (not less than twelve) dealing with matters of importance to the physician, alike as practitioner and as a witness in court.

THIRD YEAR

Lectures. Dr. MAGRATH. (H.M.S.) <i>Once a week, second half-year.</i>	16
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Comparative Pathology

ERNEST E. TYZZER, M.D., *George Fabyan Professor of Comparative Pathology.*

MARSHAL FABYAN, M.D., *Assistant Professor of Comparative Pathology.*

Second Year. — A course in Parasitology is given in the mornings of the third and fourth weeks in January in conjunction with the course in Pathology. The study of the anatomy and life cycles of the more important species of worms parasitic in the human being is provided for by fresh material for dissection, by stained sections, and by the preserved specimens of the Helminthological Collection. The student is trained to identify these parasites as they appear in the various stages of their development. Subsequently the diseases of the human being due to parasitic protozoa are considered with especial reference to their identification

life cycles. Human material, cultures, and experimentally infected animals are utilized in the study of these microorganisms. The ectoparasites, especially those concerned in the production or transmission of disease, are considered as fully as the allotted time will allow.

Fourth Year. — For a description of the fourth-year courses offered in this department, see page 71.

SECOND YEAR

LECTURES. Professor TYZZER. (H.M.S.) *One hour daily, latter half of January.* 12

DEMONSTRATIONS AND LABORATORY WORK. Professor TYZZER and Asst. Professor FABYAN. *Twelve hours a week during latter half of January.* 25

Preventive Medicine and Hygiene

JOHN J. ROSENAU, M.D., *Professor of Preventive Medicine and Hygiene.*

JOSEPHES BRONFENBRENNER, Ph.D., *Assistant Professor of Preventive Medicine and Hygiene.*

FRANKLIN STEADMAN BILL, M.D., *Instructor in Preventive Medicine and Hygiene.*

JOHN W. CHEYNEY, M.D., *Edward Hickling Bradford Fellow in Medical Research.*

JOHN F. ORR, S.M., *Charles Follen Folsom Teaching Fellow in Hygiene.*

JOHN GEORGE WEBBER, M.D., *Charles Follen Folsom Teaching Fellow in Hygiene.*

Third Year. — The course in Preventive Medicine and Hygiene consists of lectures and demonstrations, laboratory work, sanitary survey, and sanitary excursions. The laboratory work includes the bacteriological and chemical analysis of water and milk, the determination of a carbolic coefficient, making a bacterial vaccine, testing fumigants, chemical and bacteriological examination of the air, statistical methods, etc. Each student is required to make a sanitary survey of a city or town and make a report thereon. The sanitary excursions consist of visits to a vaccine and antitoxin laboratory, to a dairy, etc.

Fourth Year. — For a description of the fourth-year course offered in this department, see page 72.

* Absent on war service.

	THIRD YEAR	HOURS
Lectures and demonstrations. <i>One hour, twice a week, first half-year.</i>		32
Laboratory and Sanitary Survey. <i>Two hours, once a week, first half-year.</i>		32

Pharmacology

REID HUNT, M.D., *Professor of Pharmacology.*

WORTH HALE, M.D., *Associate Professor of Pharmacology.*

Courses in pharmacology are given in the second and in the fourth years. In the second year the instruction is given by lectures, recitations, demonstrations, and a laboratory course in which the students have an opportunity of learning the physical and chemical properties of the more important drugs and of performing experiments illustrating the physiological actions of a number of these. A few exercises are given in pharmacy and materia medica, the work consisting of demonstrations and practical exercises. Some attention is also given to toxicology. During the fourth year an opportunity is offered to students of doing more advanced work in experimental pharmacology.

Fourth Year. — For a description of the fourth-year course offered in this department, see page 72.

	SECOND YEAR	HOURS
Lectures and demonstrations. Professor HUNT and Assoc. Professor HALE. <i>One hour, three times a week, January to April.</i>		48
Lectures, prescription writing and quizzes. <i>One hour, twice a week, February to April.</i>		24
Laboratory work. <i>Two hours, once a week, January to April.</i>		32

Medicine

HENRY A. CHRISTIAN, M.D., *Hersey Professor of the Theory and Practice of Physic.*

DAVID L. EDSALL, M.D., S.D., *Jackson Professor of Clinical Medicine.*

GEORGE G. SEARS, M.D., *Professor of Clinical Medicine.*

*RICHARD C. CABOT, M.D., *Professor of Clinical Medicine.*

*ELLIOTT P. JOSLIN, M.D., *Assistant Professor of Medicine.*

EDWIN A. LOCKE, M.D., *Assistant Professor of Medicine.*

GEORGE R. MINOT, M.D., *Assistant Professor of Medicine.*

*FRANCIS W. PEABODY, M.D., *Assistant Professor of Medicine.*

I. CHANDLER WALKER, M.D., *Assistant Professor of Medicine.*

* Absent on war service.

- *CHANNING FROTHINGHAM, M.D., *Instructor in Medicine.*
 FREDERICK T. LORD, M.D., *Instructor in Medicine.*
 *WILLIAM H. ROBEY, JR., M.D., *Instructor in Medicine.*
 WILLIAM H. SMITH, M.D., *Instructor in Medicine.*
 FRANK HUNT, M.D., *Instructor in Medicine.*
 RALPH C. LARABEE, M.D., *Instructor in Medicine.*
 JAMES P. O'HARE, M.D., *Instructor in Medicine.*
 CHARLES L. OVERLANDER, M.D., *Instructor in Medicine.*
 *FRANCIS W. PALFREY, M.D., *Instructor in Medicine.*
 GERALD BLAKE, M.D., *Assistant in Medicine.*
 HAROLD BOWDITCH, M.D., *Assistant in Medicine.*
 *MARTIN J. ENGLISH, M.D., *Assistant in Medicine.*
 *ALBERT A. HONOR, M.D., *Assistant in Medicine.*
 CHARLES H. LAWRENCE, JR., M.D., *Assistant in Medicine.*
 HARRY LINENTHAL, M.D., *Assistant in Medicine.*
 LOUIS MENDELSON, M.D., *Assistant in Medicine.*
 LYMAN MORRISON, M.D., *Assistant in Medicine.*
 WILLIAM R. OHLER, M.D., *Assistant in Medicine.*
 WILLARD S. PARKER, M.D., *Assistant in Medicine.*
 WILLIAM D. SMITH, M.D., *Assistant in Medicine.*
 HARRY A. NISSEN, M.D., *Alumni Assistant in Medicine.*
 FRANCIS M. RACKEMANN, M.D., *Alumni Assistant in Medicine.*
 HOWARD F. WEST, M.D., *Alumni Assistant in Medicine.*
 JAMES H. MEANS, M.D., *Teaching Fellow in Medicine.*
 PAUL D. WHITE, M.D., *Teaching Fellow in Medicine.*

The instruction given by the Department of Medicine consists of both clinical and laboratory work. The clinical work is given by means of lectures, amphitheatre clinics, and practical work in the out-patient department and wards of the hospitals. Laboratory work is given at the Harvard Medical School in the laboratory of the Department. The laboratories are equipped for teaching routine clinical laboratory methods to the entire class, as well as for carrying on clinical or experimental medical research.

The general plan of the work will be to instruct the students during the second half of the second year in the methods of history-taking, physical examination, clinical laboratory technique, prescription writing and therapeutics, to drill the students in the third year as assistants in the out-patient departments of the hospitals, and in the fourth year to give them continued contact with patients by having them serve as clinical clerks in the hospital wards. Much of this work will be conducted in small sections,

* Absent on war service.

while lectures and amphitheatre clinics will be given for the class with the view of presenting to the students a more comprehensive knowledge of medicine. This instruction will be in part at the Harvard Medical School, in part at the Peter Bent Brigham Hospital, the Massachusetts General Hospital, the Boston City Hospital, and several of the special hospitals. In these hospitals an abundant and varied clinical material is available for the conduct of these various exercises.

Second and Third Years.—Lectures and recitations. Lectures and recitations on physical diagnosis, therapeutics and selected medical subjects will be given at the Harvard Medical School, Peter Bent Brigham Hospital, and Massachusetts General Hospital.

Amphitheatre Clinics.—Clinical lectures in which the students are called upon to take an active part will be given in the amphitheatre of the Peter Bent Brigham Hospital, the Massachusetts General Hospital, and the Boston City Hospital.

Clinico-pathological Demonstrations.—In conjunction with the Department of Pathology there will be given at the Peter Bent Brigham Hospital weekly demonstrations and discussions of pathological material. At these exercises the clinical histories of cases will be presented, the diagnosis discussed and then the pathological specimens will be demonstrated in relation to symptoms and physical signs.

Clinical Exercises.—Small sections of the class will be drilled thoroughly in the hospitals in the taking of histories, methods of physical examination, and in the examination of urine, blood, sputum, and gastric contents. The section work in physical diagnosis will be conducted in coöperation with the second-year course in anatomy in which the anatomical relations of the thoracic and abdominal viscera are studied in relation to surface markings and physical signs. In the fourth year each student will serve all day as a clinical clerk in daily contact with ward patients for a continuous period of not less than one month. This work will include one weeks' service in a hospital for tuberculosis.

Laboratory.—Students will be instructed and exercised in the chemical, microscopical, and bacteriological methods used in the practice of medicine. It is expected that each student by frequent opportunity will attain the necessary proficiency to enable him to utilize these methods in the diagnosis and prognosis of disease.

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 72.

SECOND YEAR

HOURS

ectures and recitations on history taking and physical diagnosis. Asst. Professor MINOT. (M.G.H. and H.M.S.) <i>Three hours a week for six weeks, and two hours a week for ten weeks, second half-year.</i>	38
ectures and recitations on therapeutics and prescription writing. Professor EDSALL. (M.G.H. and H.M.S.) <i>Twice a week for ten weeks, second half-year.</i>	20
linical lectures. Professor SEARS. (B.C.H.) <i>Once a week for ten weeks, second half-year.</i>	10
linical lectures. Professor EDSALL. (M.G.H.) <i>Once a week, second half-year.</i>	16
ercises in sections, conducted by assistants under the general supervision of Asst. Professor MINOT. <i>Each student has forty- five exercises.</i>	68
laboratory exercises. Assistant Professor WALKER and assistants. <i>Three times a week, second half-year. Two hour periods.</i>	96

THIRD YEAR

HOURS

ectures on selected topics. Professor CHRISTIAN. (P.B.B.H.) or Professor EDSALL. (H.M.S.) <i>Twice a week, first half-year.</i>	32
se teaching, exercises and discussion of selected topics. Pro- fessor CHRISTIAN. (P.B.B.H.) <i>Twice a week, second half-year.</i>	32
ectures on applied therapeutics. Professor SEARS. (H.M.S.) <i>Once a week, second half-year.</i>	16
ophitheatre clinics. Professor CHRISTIAN. (P.B.B.H.) <i>Once a week, throughout the year.</i>	32
ectures on special topics. Professor EDSALL or Professor SEARS. (H.M.S.) <i>Once a week, throughout the year.</i>	32
micro-pathological demonstrations. Professor CHRISTIAN and Assoc. Professor WOLBACH. (P.B.B.H.) <i>Once a week, throughout the year.</i>	32
ercises in sections as student assistants in the out-patient depart- ments at the M.G.H., B.C.H., or P.B.B.H. <i>Each section has forty-eight exercises of three hours each.</i>	144

FOURTH YEAR

A service of not less than two months as clinical clerk in the medical
wards of the M.G.H., B.C.H., or P.B.B.H. is required of each student,
except for those who take at least two months in surgery, in which case
a month of medicine is required. During this period one week will be
spent on tuberculosis patients at the Boston Consumptives' Hospital.

Tropical Medicine

- *RICHARD P. STRONG, M.D., S.D., *Professor of Tropical Medicine.*
 *ANDREW W. SELLARDS, M.D., *Assistant Professor of Tropical Medicine.*
 SUMNER C. BROOKS, Ph.D., *Research Fellow in Tropical Medicine.*
 WILLIAM E. DEEKS, M.D., *Lecturer on Tropical Medicine.*

Fourth Year. — For a description of the fourth-year courses offered in this department, see page 73.

Surgery

The Department of Surgery includes surgery, clinical surgery, operative surgery, surgical pathology, surgical technique, genito-urinary surgery, roentgenology, and the laboratory of surgical research.

- *HARVEY CUSHING, M.D., S.D., F.R.C.S., *Moseley Professor of Surgery.*
 *EDWARD H. NICHOLS, M.D., *Professor of Clinical Surgery.*
 CHARLES A. PORTER, M.D., *Professor of Clinical Surgery.*
 PAUL THORNDIKE, M.D., *Clinical Professor of Genito-Urinary Surgery.*
 J. BAPT BLAKE, M.D., *Assistant Professor of Surgery.*
 *HUGH CAROT, M.D., *Assistant Professor of Genito-Urinary Surgery.*
 DAVID CHEEVER, M.D., *Assistant Professor of Surgery.*
 ROBERT B. GREENOUGH, M.D., *Assistant Professor of Surgery.*
 HOWARD A. LOTHROP, M.D., *Assistant Professor of Surgery.*
 CHARLES L. SCUDDER, M.D., *Assistant Professor of Surgery.*
 GEORGE W. HOLMES, M.D., *Instructor in Roentgenology.*
 *JAMES S. STONE, M.D., *Instructor in Surgery.*
 FREEMAN ALLEN, M.D., *Instructor in Anaesthesia.*
 *PERCY BROWN, M.D., *Instructor in Roentgenology.*
 HARRY F. HARTWELL, M.D., *Instructor in Surgery.*
 *JOHN HOMANS, M.D., *Instructor in Surgery.*
 CONRAD JACOBSON, M.D., *Instructor in Surgery.*
 WILLIAM E. LADD, M.D., *Instructor in Surgery.*
 HALSEY B. LODER, M.D., *Instructor in Surgery.*
 *ROBERT B. OSGOOD, M.D., *Instructor in Surgery.*
 WILLIAM C. QUINBY, M.D., *Instructor in Surgery, and Director of Laboratory of Surgical Research.*
 FRANK L. RICHARDSON, M.D., *Instructor in Anaesthesia.*
 CHANNING C. SIMMONS, M.D., *Instructor in Surgery.*
 *ROBERT H. VOSE, M.D., *Instructor in Surgery.*
 *FREDERIC J. COTTON, M.D., *Associate in Surgery.*

* Absent on war service.

- *WILLIAM E. FAULKNER, M.D., *Associate in Surgery.*
- *JOSHUA C. HUBBARD, M.D., *Associate in Surgery.*
- *DANIEL F. JONES, M.D., *Associate in Surgery.*
- *FRED B. LUND, M.D., *Associate in Surgery.*
- J. DELLINGER BARNEY, M.D., *Assistant in Genito-Urinary Surgery.*
- *HORACE BINNEY, M.D., *Assistant in Genito-Urinary Surgery.*
- JACOB B. BRUCE, JR., M.D., *Assistant in Surgery.*
- PATRICK F. BUTLER, M.D., *Assistant in Roentgenology.*
- ALFRED C. CALLISTER, M.D., *Assistant in Surgery.*
- GEORGE O. CLARK, M.D., *Assistant in Surgery.*
- *ROBERT C. COCHRANE, M.D., *Assistant in Surgery.*
- WILLIAM P. COVES, M.D., *Assistant in Surgery.*
- HARVARD H. CRABTREE, M.D., *Assistant in Genito-Urinary Surgery.*
- JOHN W. CUMMIN, M.D., *Assistant in Surgery.*
- GEORGE D. CUTLER, M.D., *Assistant in Surgery.*
- SAMUEL W. ELLSWORTH, M.D., *Assistant in Roentgenology.*
- *SOMERS FRASER, M.D., *Assistant in Surgery.*
- JAMES M. GALLISON, M.D., *Assistant in Surgery.*
- *TORR W. HARMER, M.D., *Assistant in Surgery.*
- FRANCIS F. HENDERSON, M.D., *Assistant in Surgery.*
- OTTO J. HERMANN, M.D., *Assistant in Surgery.*
- HERBERT H. HOWARD, M.D., *Assistant in Genito-Urinary Surgery.*
- FRANCIS T. JANTZEN, M.D., *Assistant in Surgery.*
- OSCAR R. T. L'ESPERANCE, M.D., *Assistant in Genito-Urinary Surgery.*
- JOHN M. LITTLE, JR., M.D., *Assistant in Surgery.*
- ELBA D. MCCARTY, M.D., *Assistant in Roentgenology.*
- GEORGE W. MORSE, M.D., *Assistant in Surgery.*
- ANDRÉ W. REGGIO, M.D., *Assistant in Surgery.*
- *EDWARD P. RICHARDSON, M.D., *Assistant in Surgery.*
- AUGUSTUS RILEY, M.D., *Assistant in Surgery.*
- *EDWARD H. RISLEY, M.D., *Assistant in Surgery.*
- GEORGE G. SMITH, M.D., *Assistant in Genito-Urinary Surgery.*
- *BETH VINCENT, M.D., *Assistant in Surgery.*
- IRVING J. WALKER, M.D., *Assistant in Surgery.*
- WYMAN WHITTEMORE, M.D., *Assistant in Surgery.*
- EDWARD L. YOUNG, M.D., *Assistant in Genito-Urinary Surgery.*
- WILLIAM A. PERKINS, M.D., *Alumni Assistant in Surgery.*

*MCIVER WOODY, M.D., *Austin Teaching Fellow in Surgery.*

* Absent on war service.

Instruction will be given by lectures, clinical lectures, demonstrations, and recitations, together with section teaching in the laboratories of surgical pathology and of surgical research, and in the wards and out-patient departments of the hospitals. Elective courses will be given in the laboratories of the Harvard Medical School, and in the wards and operating rooms of the hospitals.

Lectures and demonstrations in the use of the Roentgen Ray will be given in connection with all of the departments of the School when such instruction is desired by the head of the individual department. Arrangements can be made for such instruction with the instructor in roentgenology.

Second Year. — The course in surgery begins in January of the second year. The afternoons in January will be given to surgical pathology, and to surgical therapeutics on alternate days. Laboratory exercises in surgical pathology will be given three days a week, in which will be studied the healing of wounds, fractures, diseases of the bones and joints, and such aspects of pathology as are of special surgical importance. Three clinical lectures a week, illustrating the lesions studied in the laboratory of surgical pathology, will be given at the Boston City Hospital. On two days a week the class will be divided into two sections for practical exercises in surgical operative therapeutics.

The systematic course of lectures, clinical lectures, demonstrations and recitations will begin in February of the second year—one lecture, one recitation and two clinical lectures a week. In the first two weeks the lectures and clinics will be devoted to surgical therapeutics. The general principles of surgery, beginning with trauma, hemorrhage, sepsis, etc., will be taken up in successive weeks, and illustrated by clinical lectures and demonstrations, until the end of the second half of the second year. During the first nine weeks of the second half of the second year, beginning February 1, section work in surgical technique will be given. Each student will have twelve laboratory exercises of two hours each, on the application of bandages and surgical apparatus, and the preparation and use of surgical material and dressings. Additional exercises will be given in sections, in the hospitals, on the practical application of bandages and surgical appliances. This course in surgical technique is designed to prepare the student for the required two months' "dresser" service in the surgical out-patient department of the Massachusetts General Hospital or the Boston City Hospital. Satisfactory service in this capacity during the third year is a necessary requirement for the degree.

Third Year. — During the third year, one lecture, one recitation, and two clinical lectures a week will be given throughout the year. On Wednesday a lecture will be given at the Brigham Hospital at 12.30 P.M., for

the whole class. On Tuesday at 12 m. two clinical lectures will be given, one at the Boston City Hospital and one at the Massachusetts General Hospital, either of which may be attended by the student having section work at one or the other hospital. During May twelve surgical hours, in morning and in afternoon exercises, will be devoted to genito-urinary surgery, and sections of the class will be assigned to short terms of service in the Genito-Urinary Departments.

Fourth Year.—Opportunity is afforded in the fourth-year elective courses for practical work in the wards and operating rooms of the hospitals, P.B.B.H., M.G.H., B.C.H., and C.H. For a description of the fourth-year courses offered by this department, see page 75.

SECOND YEAR

HOURS

Laboratory course in Surgical Pathology. Professor NICHOLS.* (H.M.S.) <i>Twelve three-hour exercises during January.</i>	36
Laboratory course in Surgical Therapeutics. Professor CUSHING* and Associates. (H.M.S.) <i>Eight three-hour exercises during January.</i>	24
Clinical lectures in connection with the course in Surgical Pathology. Professor NICHOLS.* (B.C.H.) <i>Twelve exercises during January.</i>	12
Clinical lectures in Surgical Therapeutics. Professor CUSHING.* (P.B.B.H.) <i>Four exercises during January.</i>	4
Laboratory course in Surgical Therapeutics. Professor PORTER and Asst. Professor LOTHROP and assistants. <i>Eighteen two-hour exercises for each student during the second half of the second year.</i>	36
Lectures and demonstrations. Professors CUSHING,* NICHOLS,* and PORTER, and Associates. (H.M.S.) <i>Once a week, second half-year.</i>	16
Recitations. Asst. Professors GREENOUGH and LOTHROP. <i>Once a week, second half-year.</i>	16
Clinical lectures. Professor PORTER and Asst. Professor GREENOUGH (M.G.H.), Professor NICHOLS* and Asst. Professors BLAKE and LOTHROP (B.C.H.). <i>Twice a week, second half-year.</i>	32

THIRD YEAR

Lectures and demonstrations. Professors CUSHING,* NICHOLS,* and PORTER, and Associates. <i>Once a week, throughout the year.</i>	32
Clinical lectures. Asst. Professor CHEEVER and Dr. HOMANS.* (P.B.B.H.) <i>Once a week, throughout the year.</i>	32

* On leave; exercise to be conducted by another member of the Faculty.

Clinical lectures given contemporaneously at the M.G.H. and B.C.H.	
Professor PORTER and Asst. Professor GREENOUGH (M.G.H.)	
or Professor NICHOLS* and Asst. Professors BLAKE and LOTHROP	
(B.C.H.). <i>Once a week, throughout the year.</i>	32
(During May of the third year, four morning and eight afternoon	
exercises will be devoted to genito-urinary surgery. Clin. Pro-	
fessor PAUL THORNDIKE. (B.C.H. and M.G.H.))	
Recitations. Asst. Professors LOTHROP and GREENOUGH. (H.M.S.)	
<i>Once a week, first half-year.</i>	32
Case teaching. Asst. Professor BLAKE. (H.M.S.) <i>Once a week,</i>	
<i>beginning February 1st.</i>	16
Out-Patient Surgical Dresser Service. Exercises in sections. Each	
student has forty-eight exercises of three hours each.	144

FOURTH YEAR

A service of not less than two months as clinical clerk in the surgical wards of the M.G.H., B.C.H., or P.B.B.H., is required of each student, except for those who take at least two months in Medicine, in which case one month of surgery is required.

Pediatrics

JOHN L. MORSE, M.D., <i>Professor of Pediatrics.</i>	
EDWIN H. PLACE, M.D., <i>Assistant Professor of Pediatrics.</i>	
CHARLES H. DUNN, M.D., <i>Instructor in Pediatrics.</i>	
FRITZ B. TALBOT, M.D., <i>Instructor in Pediatrics.</i>	
HENRY I. BOWDITCH, M.D., <i>Instructor in Pediatrics.</i>	
ARTHUR A. HOWARD, M.D., <i>Instructor in Pediatrics.</i>	
*MAYNARD LADD, M.D., <i>Instructor in Pediatrics.</i>	
RICHARD M. SMITH, M.D., <i>Instructor in Pediatrics.</i>	
PHILIP H. SYLVESTER, M.D., <i>Instructor in Pediatrics.</i>	
*RICHARD S. EUSTIS, M.D., <i>Assistant in Pediatrics.</i>	
HAROLD A. GALE, M.D., <i>Assistant in Pediatrics.</i>	
JOSEPH I. GROVER, M.D., <i>Assistant in Pediatrics.</i>	
WILLIAM W. HOWELL, M.D., <i>Assistant in Pediatrics.</i>	
*KARLTON G. PERCY, M.D., <i>Assistant in Pediatrics.</i>	
WARREN R. SISSON, M.D., <i>Assistant in Pediatrics.</i>	
*EDWIN T. WYMAN, M.D., <i>Assistant in Pediatrics.</i>	
JAMES H. YOUNG, M.D., <i>Assistant in Pediatrics.</i>	
LEWIS W. HILL, M.D., <i>Alumni Assistant in Pediatrics.</i>	
ALFRED W. BOSWORTH, A.M., <i>Research Fellow in Pediatrics.</i>	
ALLAN R. CUNNINGHAM, M.D., <i>Boston Dispensary Research Fellow in</i>	
<i>Pediatrics.</i>	

* Absent on war service.

Third Year.—The material for instruction is drawn from the Infants' Hospital, the Children's Hospital, the South Department of the Boston City Hospital, and from the Children's Departments of the Massachusetts General Hospital and the Boston Dispensary. Lectures and recitations are given on certain selected topics preparatory for the clinical teaching. Clinical lectures are given at the Children's Hospital and at the Infants' Hospital. Section teaching at the bedside and in the out-patient departments of the various hospitals is given throughout the year and comprises a large proportion of the year's instruction. Bedside instruction and clinical lectures are given at the South Department of the Boston City Hospital, where the students are shown and examine cases of diphtheria, the acute exanthemata and any other contagious diseases which happen to be in the hospital. According as the opportunity arises, the students are instructed in the technique of intubation. By means of the very large amount of pediatric material in the contagious wards, the general subject of Pediatrics as connected with contagious diseases is especially explained and illustrated. Exercises in case teaching are given in the latter part of the year. The students are also given instruction in lumbar puncture and in various laboratory procedures especially applicable to children. In all clinical and section teaching especial attention is paid to clinical therapeutics.

THIRD YEAR

HOURS

Lectures, recitations or case teaching. Professor MORSE and assistants. (H.M.S.) <i>Once a week, throughout the year.</i>	32
Clinical lectures. Professor MORSE and assistants. (Ch.H. or I.H.) <i>Once a week, throughout the year.</i>	32
Section Teaching. (Ch.H., I.H., M.G.H., B.D., and S.D.B.C.H.) <i>Throughout the year. Each student attends twenty-four exercises of three or three and one-half hours each during the year.</i>	72

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 74.

Dermatology and Syphilology

CHARLES J. WHITE, M.D., *Edward Wigglesworth Professor of Dermatology.*

C. MORTON SMITH, M.D., *Assistant Professor of Syphilology.*

FREDERICK S. BURNS, M.D., *Instructor in Dermatology.*

JOHN H. BLAISDELL, M.D., *Assistant in Dermatology.*

HENRY D. LLOYD, M.D., *Assistant in Syphilology.*

E. LAWRENCE OLIVER, M.D., *Assistant in Dermatology.*

* Absent on war service.

DERMATOLOGY

Third Year. — A series of twelve introductory lectures, illustrated by the epidiascope, is given during October and November. Section work in clinical dermatology at the Massachusetts General Hospital throughout the year, each section receiving instruction for two weeks from 9 A.M. to 12 M. daily.

In April and May the class meets for eight hours at the Medical School, the instruction consisting of lectures covering the treatment of all the common, important diseases.

Fourth Year. — For a description of the fourth-year courses offered in this department, see page 79.

	THIRD YEAR	HOURS
Lectures.	Professor WHITE. (H.M.S.) <i>Twelve lectures, first half-year.</i>	12
Lectures on the Therapeutics of the Skin.	Professor WHITE. (H.M.S.) <i>Last eight weeks, second half-year.</i>	8
Section work.	Clinical Dermatology. Drs. BURNS and BLAISDELL. (M.G.H.) <i>Each student attends twelve three-hour exercises.</i>	36

SYPHILOLOGY

Third Year. — Lectures and clinical instruction are given at the Massachusetts General Hospital.

	THIRD YEAR	HOURS
Lectures.	Asst. Professor SMITH. (H.M.S.) <i>Once a week, December and January.</i>	6
Clinical lectures.	Asst. Professor SMITH. (M.G.H.) <i>Once a week, September 28 to November 23.</i>	8
Clinical exercises.	Asst. Professor SMITH and Dr. LLOYD. (M.G.H.) <i>Each student attends twelve three-hour exercises, in sections.</i>	36

Diseases of the Nervous System

The Department of Diseases of the Nervous System is composed of the sub-departments of Neuropathology, Neurology, and Psychiatry.

*ELMER E. SOUTHARD, M.D., S.D., *Bullard Professor of Neuropathology.*

EDWARD W. TAYLOR, M.D., *Professor of Neurology.*

*JAMES B. AYER, M.D., *Instructor in Neurology.*

LAWSON G. LOWREY, M.D., *Instructor in Neuropathology and Psychiatry.*

* Absent on war service.

CHARLES A. McDONALD, M.D., *Instructor in Neurology.*
 GEORGE CLYMER, M.D., *Assistant in Neurology.*
 DENEY A. LORD, M.D., *Assistant in Neurology.*
 ABEL A. MENNINGER, M.D., *Assistant in Neuropathology.*
 GEORGE J. RAEDER, M.D., *Assistant in Neuropathology.*
 CHARLES E. SANDOZ, M.D., *Assistant in Psychiatry.*
 GEORGE J. WRIGHT, M.D., *Assistant in Neuropathology.*

NEUROPATHOLOGY

Second Year.—The course consists of lectures, laboratory work, and demonstrations, with tests, review exercises, and quizzes as required. A brief review is given of the anatomy required for grasping the pathological physiology of the nervous system. The lectures introduce conceptions of value for the third-year courses in neurology and psychiatry and for the pathological parts of courses in internal medicine and in surgery. The laboratory work is mainly histopathological, dealing with the inflammatory reactions, the classical degenerations, and, in brief, with important entities such as general paresis of the insane and tabes dorsalis. To illustrate the simpler physiological applications of the work, special demonstrations are given to the students in groups at certain State institutions.

SECOND YEAR

Lectures and laboratory work. Professor SOUTHWARD and assistants.

Monday and Wednesday afternoons in May.

32

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 80.

NEUROLOGY

Second Year.—Clinical lectures are given at the Massachusetts General Hospital to the entire class, once a week throughout the second half of the year. The object of the course is to give the student a general knowledge of the principles of diagnosis and treatment of diseases of the nervous system as a preparation for later work. The general plan of instruction is: (a) Review of the anatomy of the nervous system essential to diagnosis of organic diseases; lectures and demonstrations. (b) Pathological anatomy in its relation to diagnosis; demonstrations of specimens and photographs. (c) Study of cases as they present themselves at the out-patient department of the hospital and in the wards.

Third Year.—Clinical lectures are given during December and May of the third year at the Massachusetts General Hospital. The members of the class are also required to work in the out-patient department in sections

* Absent on war service.

throughout the year for which the more didactic teaching of the second year serves as a necessary preparation. This work is practical in character and serves to bring the student into immediate contact with patients.

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 81.

SECOND YEAR

HOURS

Clinical lectures. Professor TAYLOR. (M.G.H.) *Once a week, second half-year.* 16

THIRD YEAR

Clinical lectures. Professor TAYLOR. (M.G.H.) *Once a week, November 30 to December 21 and during May.* 8

Section teaching. Each student attends twelve three-hour exercises in Neurology. 36

PSYCHIATRY

THIRD YEAR

During January, February, March, and April a clinical lecture will be given once a week at the Psychopathic Hospital. The different forms of mental disease will be discussed and patients exhibiting the symptoms under consideration will be presented.

During the second half-year a series of eight lectures will be given at the Harvard Medical School. This course is designed to present to the students the modern points of view in regard to mental disease, including the psychoneuroses and mild psychopathic states.

Supplementary instruction is given to the class in small sections in the wards and out-patient department of the Psychopathic Hospital. Each student will examine and report on at least one case of mental disease or defect.

THIRD YEAR

HOURS

Lectures. Professor SOUTHARD. (H.M.S.) *Once a week, eight weeks. second half-year.* 8

Clinical lectures. Professor SOUTHARD and assistants. (P.H.) *Once a week, January, February, March, and April.* 16

Section teaching. Each student attends twelve three-hour exercises in Psychiatry. 36

Obstetrics and Gynaecology

WILLIAM P. GRAVES, M.D., *Professor of Gynaecology.*

FRANKLIN S. NEWELL, M.D., *Professor of Clinical Obstetrics.*

ROBERT M. GREEN, M.D., *Instructor in Anatomy, and Assistant in Gynaecology.*

FRANK A. PEMBERTON, M.D., *Instructor in Gynaecology.*

MALCOLM STORER, M.D., *Instructor in Gynaecology.*

JAMES B. YOUNG, M.D., *Instructor in Gynaecology.*
 ROBERT L. DENORMANDIE, M.D., *Assistant in Obstetrics.*
 FREDERICK L. GOOD, M.D., *Assistant in Gynaecology.*
 JESSE L. HUNTINGTON, M.D., *Assistant in Obstetrics.*
 FREDERICK C. IRVING, M.D., *Assistant in Obstetrics.*
 ALBERT L. JACKSON, M.D., *Assistant in Obstetrics.*
 JESSE S. KELLOGG, M.D., *Assistant in Obstetrics.*
 NATHANIEL R. MASON, M.D., *Assistant in Obstetrics and Gynaecology.*
 JOHN B. SWIFT, Jr., M.D., *Assistant in Obstetrics.*
 JAMES R. TORBERT, M.D., *Assistant in Obstetrics.*
 HAROLD G. WADSWORTH, M.D., *Assistant in Gynaecology.*
 JOHN T. WILLIAMS, M.D., *Assistant in Gynaecology.*
 MOND S. TITUS, M.D., *Assistant in Obstetrics.*
 JOSEPH J. BRISTOL, Jr., M.D., *Alumni Assistant in Obstetrics.*

OBSTETRICS

Third Year.—Instruction is given by lectures, conferences, and clinical teaching. Students are required to take charge of at least twelve cases of labor, under supervision and instruction, to care for their patients during convalescence, and to make full written reports of the cases.

Fourth Year.—For a description of the fourth-year courses offered in this department, see page 78.

SECOND YEAR

HOURS

Lectures. Professor NEWELL. (H.M.S.) *Once a week, second half-year.*

16

THIRD YEAR

Lectures and conferences on Obstetrics. Professor NEWELL and assistants. (H.M.S.) *Once a week, October; twice a week, November, December, January; Once a week, second half-year.* Clinical instruction in Clinical Obstetrics. By members of the Department. *Throughout the year.*

44

GYNAECOLOGY

Instruction is given by lectures and clinical teaching in the fourth year. Lectures are held in the wards and out-patient departments of the Free Hospital for Women, Boston City Hospital, and Boston Dispensary. The student is instructed in the examination and diagnosis of gynaecological disease, and in the technic of gynaecological operations.

THIRD YEAR

HOURS

Lectures. Professor GRAVES. (H.M.S.) *Once a week, April and May.*

8

* Absent on war service.

FOURTH YEAR

Clinical exercises. Professor GRAVES, and Drs. PEMBERTON and WADSWORTH (F.H. for W.), Dr. STORER (B.D.), and Drs. YOUNG, GREEN, GOOD, MASON, and WILLIAMS. (B.C.H.) *In sections, throughout the year. Each student attends twelve exercises.*

36

Electives. See page 78.

Orthopedic Surgery

ROBERT W. LOVETT, M.D., *John B. and Buckminster Brown Professor of Orthopedic Surgery.*

*ELLIOTT G. BRACKETT, M.D., *Assistant Professor of Orthopedic Surgery.*

*ZABDIEL B. ADAMS, M.D., *Instructor in Orthopedic Surgery.*

ARTHUR T. LEGG, M.D., *Instructor in Orthopedic Surgery.*

*ROBERT B. OSGOOD, M.D., *Instructor in Orthopedic Surgery.*

ROBERT SOUTTER, M.D., *Instructor in Orthopedic Surgery.*

LYOYD T. BROWN, M.D., *Assistant in Orthopedic Surgery.*

*HENRY J. FITZSIMMONS, M.D., *Assistant in Orthopedic Surgery.*

*FRANK R. OBER, M.D., *Assistant in Orthopedic Surgery.*

Instruction is given in Orthopedic Surgery by lectures at the Harvard Medical School or Children's Hospital in the second half of the third year, and in the fourth year by clinical demonstrations at the Children's Hospital and Massachusetts General Hospital.

THIRD YEAR

HOURS

Lectures. Professor LOVETT. (H.M.S. or C.H.) *Twice a week, February, March: and once a week, April, May.*

24

FOURTH YEAR

Clinical Demonstrations. Professor LOVETT and assistants. (Ch.H.)

In sections throughout the year. Each student has sixteen exercises.

48

Electives. See page 77.

Ophthalmology

— —, *Williams Professor of Ophthalmology.*

*ALEXANDER QUACKENBOSS, M.D., *Assistant Professor of Ophthalmology.*

*FREDERICK H. VERHOEFF, M.D., *Assistant Professor of Ophthalmic Research.*

*GEORGE S. DERBY, M.D., *Instructor in Ophthalmology.*

* Absent on war service.

RAY H. HASKELL, M.D., *Instructor in Ophthalmology.*
 WILLIAM N. SOUTER, M.D., *Instructor in Ophthalmology.*
 JOHN M. SPALDING, M.D., *Instructor in Ophthalmology.*
 FORD B. WALKER, M.D., *Assistant in Ophthalmology.*

Instruction in Ophthalmology consists of lectures at the Medical School in the third year and of clinical exercises devoted to diagnostic methods, diagnosis, and treatment at the Massachusetts Charitable Eye and Ear Infirmary in the fourth year.

FOURTH YEAR

HOURS

clinical exercises. Asst. Professor QUACKENBOSCH and Drs. HASKELL and SPALDING. (E. and E.I.) *In sections, every week during the year. Twelve exercises for each student.* 36
 Lectures. See page 82.

Otology

JESSE A. CROCKETT, M.D., *Walter Augustus Lecompte Professor of Otology.*
 FRANCIS P. EMERSON, M.D., *Instructor in Otology.*
 JOHN B. FAUNCE, Jr., M.D., *Instructor in Otology.*
 ALFRED HAMMOND, M.D., *Instructor in Otology.*
 WILLIAM F. KNOWLES, M.D., *Instructor in Otology.*
 GEORGE L. TOBEY, Jr., M.D., *Instructor in Otology.*
 FREDERICK H. WALKER, M.D., *Instructor in Otology.*
 HENRY P. CAHILL, M.D., *Assistant in Otology.*
 HERBERT A. LOTHROP, M.D., *Assistant in Otology.*
 EDWARD A. SIMMONS, M.D., *Assistant in Otology.*

OTOLOGY

Instruction is given by lectures at the Harvard Medical School in the third year and clinical instruction in the fourth year in sections, each student receiving instruction every morning for two weeks at the Massachusetts Eye and Ear Infirmary with anatomical and histological demonstrations at the Harvard Medical School.

FOURTH YEAR

clinical exercises in sections. (E. and E.I.) *Every student receives twelve exercises during the year.* 36
 Lectures. See page 82.

* Absent on war service.

Laryngology and Rhinology

ALGERNON COOLIDGE, M.D., *Professor of Laryngology.*

*HARRIS P. MOSHER, M.D., *Assistant Professor of Laryngology.*

*HARRY A. BARNES, M.D., *Instructor in Laryngology.*

JOHN H. BLODGETT, M.D., *Instructor in Laryngology.*

FREDERICK E. GARLAND, M.D., *Instructor in Laryngology.*

JOSEPH L. GOODALE, M.D., *Instructor in Laryngology.*

*D. CROSBY GREENE, M.D., *Instructor in Laryngology.*

GEORGE H. WRIGHT, D.M.D., *Assistant in Laryngology.*

LARYNGOLOGY

Instruction consists of lectures in the third year, and in the fourth year each section is assigned for the mornings of two weeks to the clinic of the Massachusetts General Hospital. In addition to clinical instruction, frequent special exercises or demonstrations will be given.

THIRD YEAR

HOURS

Lectures. Professor COOLIDGE, assisted by Drs. GOODALE and WRIGHT. (H.M.S.) *Once a week, April and May.*

FOURTH YEAR

Clinical exercises. Professor COOLIDGE, and Drs. BARNES, BLODGETT, GARLAND, GREENE, and WRIGHT. *Forty-eight hours for each student.*

Electives. See page 82.

FOURTH-YEAR COURSES

The fourth year is divided into eight periods, or "months," in which each student is required to take not less than three months in courses in which he serves as medical or surgical clinical clerk in hospital wards (Medicine 1, 2, 3 or 4; Surgery 1, 2 or 3), and one month each in Pediatrics and in Obstetrics, two months in the combined course in specialties, and one month in an elective.

The courses of the fourth year are given as full courses, half-courses, and quarter-courses. A half-course occupies the entire day for one month or half the day for two months. A half-course has the value of 125 hours. A quarter-course occupies half the day for one month. One thousand hours of work are required in the fourth year.

In exceptional cases a student may be allowed to substitute one or more electives for required courses of the fourth year. To do this he must

* Absent on war service.

present with his choice of courses a petition to the Administrative Board, stating the reasons for the change, and any work which he has done or expects to do in the subjects omitted.

Students must file at the Dean's Office not later than May 1st, on blanks provided for the purpose, their preferences among courses in required subjects and their choice of electives, the Administrative Board reserving the right to modify the selection of the courses chosen by any student.

The order in which a student's courses are arranged is determined by the Assistant Dean.

Changes in the fourth-year schedule are allowed in individual cases by the Administrative Board only when good reason for the change exists and only with the approval of the instructors concerned, which approval should first be secured.

No student may select a fourth-year course covering a subject in the work of the first three years in which he is deficient, without the consent of the head of the Department in writing.

On Fridays throughout the year afternoon work in all courses will be replaced by class exercises.

The nature of the examinations shall be determined by each department, subject to the approval of the Faculty. The student's credit may be based on his daily record of work; on a practical or written examination at the end of his course; or on both.

REQUIRED COURSES

Medicine 1, 2, 3 or 4.

Pediatrics 1.

Surgery 1, 2 or 3.

Obstetrics 1.

Combined Course:

Orthopedic Surgery 1.

Otology 1.

Gynaecology 1.

Laryngology 1.

Ophthalmology 1.

FOURTH-YEAR COURSES ARRANGED UNDER DEPARTMENTS *

ANATOMY.

Under this Heading are included the Courses in Anatomy, Comparative Anatomy, Embryology, and Histology.]

Anatomy 1. Assistant Professor CHEEVER and Assistants. Quarter-courses, afternoons, August and November.

This course in applied and surgical anatomy is designed to illustrate the practical applications of anatomy in medicine and surgery. Less important details of general anatomy are studied briefly or omitted altogether,

* Given in 1918-19. A pamphlet describing the courses offered for 1920 will be published in May.

according to their deserts, but opportunity is given to the individual student to pay especial attention to regions in which he is interested. Instruction is chiefly by demonstrations by the instructor and dissection by the student, with the study of specimens, together with informal quizzes. The greatest importance is attached to the verification by the student in his own dissection of the facts presented by the instructor.

Anatomy 2. Advanced Vertebrate Embryology. Associate Professor LEWIS. Half-course, all day, in a month to be arranged with the student.

An elementary knowledge of embryology, such as may be obtained from first-year embryology, is required. Course 5, offered by the Department of Zoology of Harvard College, or an equivalent course, is recommended.

This course consists chiefly of laboratory work. There are no lectures, but at appointed times the students meet for directions and for a thorough discussion of the specimens studied. The methods of making graphic and wax reconstructions will be taught, together with the ways of preparing drawings for publication. Reconstructions by both methods, and a certain number of drawings suitable for reproduction, will be required.

Special organs or groups of organs may be studied according to the special needs of the students.

The *Manual of Human Embryology*, edited by Keibel and Mall, will be used as a text-book, and original publications will be consulted. At the discretion of the instructor students may have access to the extensive embryological collection and to the collection of models, many of which were made in the Harvard Laboratory.

Anatomy 3. Advanced Histology. Associate Professor BREMER. Half-course, all day, one month, to be arranged with the student.

This course includes the study of the genesis and adult histology of special organs, or groups of organs, according to the needs of the individual student, and the principal methods of histological technic, used in such study.

Anatomy 4. Physical Anthropology. Dr. E. A. HOOTON. Half-course, to be arranged with instructor.

This course is designed to give medical students a comprehensive view of the physical history of man, the relation of man to the Primates, comparative racial anatomy and physiology, growth and proportion, the physical effects of heredity and environment, variation, race mixture, and acclimatization. The attention of students of orthopedics is especially directed to that portion of the course dealing with the development of the erect posture.

d the biped mode of progression, and to the sections dealing with growth and proportion. The section on human pigmentation is especially important to students of dermatology and tropical medicine. The studies in human variation have a particular interest for students of psychiatry. The course includes lectures, demonstrations, reading, laboratory work, and special investigations. Opportunity is afforded for work in the zoological department of the Peabody Museum, which contains suitable material for the study of racial, sexual, and individual variations. In the laboratory the student is taught the anthropometrical methods employed in the study of racial groups, and the measurements and observations used in the investigation of delinquents.

PHYSIOLOGY.

Physiology 1. Half-courses, or quarter-courses, forenoons, afternoons, or all day, throughout the year.

Detailed study in special subjects in physiology. Such study will include preparation of bibliographies, reading of classical papers, repetition of important experiments, and reports on work accomplished.

Physiology 2. Investigation.

Students properly qualified, who are willing to spend sufficient time on research, will be welcomed into the laboratory and given problems to work upon. During the conduct of their investigations they will receive counsel and guidance of other investigators working with them.

COMPARATIVE PHYSIOLOGY.

Comparative Physiology 1. Half-courses, forenoons, afternoons, or all day, throughout the year, by special arrangement.

Students may elect work in any field of physiology. It is to be presumed that such students desire additional work in physiology to fit them for some special field of medicine—for example, the diseases of the nervous system; or they may wish to pursue physiology, pathology, or some other biological science as a profession. They will be received into the research laboratories of the department, and will carry on their studies with the personal assistance of Professor PORTER. The work will consist of fundamental experiments, the study of accessory data, and the reading of selected original investigations. The course is open to qualified persons in students in the Medical School.

Comparative Physiology 2. Physiology of the eye, ear, and upper respiratory tract. Afternoons, except Friday and Saturday, in December and January, by special arrangement.

BIOCHEMISTRY.

Biochemistry 1. Half-courses, forenoons, afternoons, or all day, June and July, October to January.

BACTERIOLOGY.

Bacteriology 1. Quarter-course, afternoons, January.

These electives will be of five kinds, including (a) instruction in methods of diagnosis, depending upon bacteriological procedures; (b) instruction in methods of bacteriological diagnosis in use in health board laboratories, including the examination of waters and soils; (c) instruction in methods of opsonic-index work, with practical application; (d) research work in any direction for which the student may be fitted.

Longer courses may include one or the other of these, together with a limited piece of research work.

PATHOLOGY.

Pathology 1. Associate Professor F. B. MALLORY. Half-courses, all day, throughout the year.

This course is given in the pathological laboratory of the Boston City Hospital. Every student must furnish his own microscope.

The work consists of attendance at autopsies and of the study of the tissues obtained at them. In addition much time is devoted to the microscopic study of the most interesting lesions which have been collected at the laboratory during the last twenty years. In this way the special pathology of the liver, kidneys, heart, blood vessels, lungs, and other organs is covered and the student is encouraged to correlate what he sees with the clinical experience which he has already received.

The laboratory receives about two thousand specimens yearly from surgical operations. The students who plan to go into surgery later are encouraged to devote at least a part of their time to the study of tumors and other lesions of surgical interest obtained in this way, because it furnishes them with the only intelligent basis for their future work. In addition there are available for study, preparations from many thousands of interesting surgical specimens received in the past.

Pathology 2. Assistant Professor J. H. WRIGHT. Half-courses, all day, June and July, December and January.

This course is given in the pathological laboratory of the Massachusetts General Hospital.

The work consists of (a) training in the technical methods used in pathology; (b) attendance at post-mortem examinations, and the fixation and study of tissues obtained from them; (c) study of the more unusual pathological lesions; (d) research work in any line which a student demonstrates his fitness to pursue.

Each course limited to four men.

Pathology 3. Half-courses, mornings or afternoons, June, July, August, and September.

This course is given in the laboratory of pathology, H.M.S., and is open to men acceptable to the head of the department who wish to take research work in pathological anatomy or in experimental pathology. Problems will be arranged by consultation between students and the head of the department. Not more than two men will be received in any course.

Pathology 4. Associate Professor WOLBACH and Instructor. Half-courses, all day, during summer if arrangements can be made.

This course will consist in the general work of the pathological laboratory of the Peter Bent Brigham Hospital, emphasis being placed upon the relation of clinical and pathological work. Limited to four men in a course.

COMPARATIVE PATHOLOGY.

Comparative Pathology 1. Assistant Professor FABYAN. Quarter-courses, afternoons, August, September, and October.

Laboratory exercises, assigned reading, and discussions. Technique and use of the various immune reactions and biological products for diagnostic, biological, and clinical purposes. Laboratory animals are used for the experimental study of toxins, antitoxins, agglutinins, opitins, opsonins, lysins, complement fixing bodies, and vaccines.

Comparative Pathology 2. Research. Professor TYZZER and Assistant Professor FABYAN. Properly qualified students may arrange for research in experimental and comparative pathology, for which adequate facilities will be provided. Such work may be undertaken at the convenience of the student.

Comparative Pathology 3. Protozoology. Professor TYZZER and Assistant Professor FABYAN. Quarter-courses, mornings, June, July, October, and November.

This course in protozoology will include a general discussion of the biology and life history of the more important human protozoan parasites, such as the amoebae, flagellata (trypanosomes, the parasites of malarial and oriental sore), sporozoa (malarial parasites), and ciliata. Their relations to their definitive, and to intermediate hosts will also be discussed, together with phenomena of immunity. Methods for the cultivation of certain parasites and suitable procedures for collecting, staining, and mounting will be discussed.

Comparative Pathology 4. Helminthology. Professor TYZZER and Assistant Professor FARYAN. Quarter-courses, mornings, June and July.

The course in helminthology will include the differentiation and classification of species and instruction in collecting, preserving, staining, and mounting the parasites and their ova, and experimentation with parasites when possible. The human cestodes, trematodes, and nematodes will be considered in detail. Certain species of the ancanthocephala, the pentastomida, and hirudinea will also be discussed.

PREVENTIVE MEDICINE AND HYGIENE.

Preventive Medicine and Hygiene 1. Half-course, all day, July.

The students will investigate public health methods in greater detail than is possible in the third-year course, and is intended for those who desire to investigate some special phase of public health work. The work will include field surveys, epidemiological studies, public health laboratory methods, etc. Each student must make a special investigation of some public health problem.

Arrangements for this course must be made with the head of the Department. The course is limited to four men.

PHARMACOLOGY.

Pharmacology 1. Half-course, all day, or quarter-courses, mornings or afternoons in October.

The work in this course is designed for students who wish to become familiar with general chemical and physiological methods of detecting poisons, and with chemical and physiological methods of drug assay, or with methods for the detection of food adulterants.

MEDICINE.

Medicine 1. Full courses, all day, throughout the year.

This work will be given at the Massachusetts General Hospital. Each course will be limited to eight students. Students will serve as clinical clerks in the wards of the hospital and will have opportunity to systematically study the patients. Work in the wards may be supplemented by work in the out-patient department. Ample facilities will be furnished for the laboratory investigation of the patients. This course will be given under the supervision of Professor EDSALL. Each student electing the course must take it for at least two consecutive months, unless he has already had a course in Medicine 2 or 3, in which case he may take one or more further months in this course.

Medicine 2. Full courses, all day, throughout the year.

This work will be given at the Peter Bent Brigham Hospital. Each course will be limited to eight students. Students will serve as clinical clerks in the wards of the hospital and will have opportunity to study systematically the patients. Work in the wards may be supplemented by work in the out-patient department. Ample facilities will be furnished for laboratory investigation of patients. This course will be given under supervision of Professor CHRISTIAN. Each student electing the course must take it for at least two consecutive months, unless he has already had a course in Medicine 1 or 3, in which case he may take one or more additional months in this course.

Medicine 3. Full courses, all day, throughout the year.

This work will be given at the Boston City Hospital. Each course will be limited to six students. Students will serve as clinical clerks in the wards of the hospital and have opportunity to study systematically the patients. Work in the wards may be supplemented by work in the out-patient department. Facilities will be furnished for laboratory investigation of patients.

These courses will be given under the supervision of Assistant Professor A. LOCKE. Each student electing the course must take it for at least two consecutive months, unless he has already had a course in Medicine 1 or 2, in which case each student may take one or more additional months in this course.

Medicine 4. Half-courses, all day, throughout the year.

This course is intended for students who elect two months of surgery and one month of medicine to fulfil the requirement of three months' service as clinical clerk in hospital wards. Students will serve as clinical clerks in the wards of a hospital. Students will be assigned to the hospitals in which there are vacancies in accordance with the limitation of numbers placed in each of the courses, Medicine 1, 2, and 3.

TROPICAL MEDICINE.

Opportunity for the study of tropical diseases, tropical entomology, tropical pathology, tropical bacteriology, and clinical laboratory work, may be taken by special arrangement with Assistant Professor A. W. SARGENT, who should be consulted by students desiring such courses.

ROENTGENOLOGY.

Roentgenology 1. Quarter-courses, mornings, October, November, Dr. GEORGE W. HOLMES and Assistants.

First Week: General Roentgenology—theory and general practice—application to medicine, surgery, and the special fields—principles of interpretation. Massachusetts General Hospital.

Second Week: Roentgenology of the Gastro-Enteric System—fluoroscopy and plate diagnosis—Massachusetts General Hospital.

Third Week: The Roentgenology of Intrathoracic Disease—fluoroscopy and plate diagnosis—with correlation of all evidence for differential diagnosis. Boston City Hospital.

Fourth Week: Roentgen Therapeutics, with a consideration of superficial application and the "deep" technic. Massachusetts General Hospital and Peter Bent Brigham Hospital.

PEDIATRICS.

Pediatrics 1. Prescribed Course. Half-courses, all day, throughout the year.

The work will consist of instruction in the wards and out-patient departments of the Children's Hospital, of the Infants' Hospital, of the Children's Department of the Massachusetts General Hospital, in the contagious wards of the South Department of the Boston City Hospital, at the Children's Tubercular clinic of the Burroughs Place Dispensary, and in the children's wards and out-patient department of the Boston Dispensary. The students will be assigned to the various clinics by the Professor of Pediatrics, and the work will be under his supervision. The mornings will be spent in practical work in the various wards and out-patient departments. Especial instruction will be given at the Infants' Hospital in the examination and preparation of milk modifications in connection with substitute feeding, and here instruction will also be given in connection with the subject of wet nurses.

One afternoon in each week will be spent at the South Department. Here instruction in general pediatrics as connected with contagious diseases will be demonstrated, and whenever possible the technic of intubation will be shown.

The class will be taken to a model farm where everything practical pertaining to the milk supply for infants and young children will be taught. Practical instruction will also be given in a milk laboratory, in the writing of prescriptions, and in the routine of laboratory work.

The examination will be either oral or written, held by the Professor of Pediatrics.

Pediatrics 2. Half-courses, all day, throughout the year.

The required course may be repeated as an elective, the only change being that practical work in the wards and out-patient departments will be substituted for the special work on the modification of milk at the Infants' Hospital and the visits to the model farm and milk laboratory.

This course is really a repetition only in name, because, being almost entirely clinical, the patients seen must necessarily be different every month.

Pediatrics 3. Half-courses, all day, throughout the year.

Students who have taken the required course, and shown themselves competent, will be assigned to one of the hospitals under the control of the department, for special practical work in the wards and out-patient departments for periods of one month or longer.

Pediatrics 4. Half-courses, all day, throughout the year.

Students who have taken the required course, and shown themselves competent to undertake original investigations, will be given the opportunity to undertake such investigations under the direction of the instructors in the department, for periods of one month or longer.

GERGERY.

The electives offered by the department of surgery consist of half-courses (occupying the whole day, for one month) and quarter-courses (either mornings or afternoons, for one month). They are so arranged that they may be themselves combined in different groups or taken in combination with quarter-courses offered by other departments. No student will be permitted to take more than four half-courses in surgery, without special permission of the head of the department.

1	2	3	4	5	6	7
All day. 1 month. B.B.H. Dresser. Practical Surgery. June to January.	All day. 1 month. B.C.H. (a) Clinical and Labora- tory. Dr. Nichols. (b) Dresser Service. B.C.H. (c) Dresser Service. Relief Station. June to January.	All day. 1 month. M.G.H. Dresser. Practical Surgery. June to January.	Afternoons. 1 month. Children's Hospital. General Surgical Service. Dresser. June to January.	Forenoons. 1 month. B.C.H. G. U. Sur- gery. Thorndike. June to January.	Forenoons. 1 month. M.G.H. G. U. Sur- gery. H. Cabot. June to January.	All day. 1 month. H.M.S. Surgical Research. June to January.
Half- course.	Half- course.	Half- course.	Quarter- course.	Quarter- course.	Quarter- course.	Half- course.

Surgery 1. Clinical Clerk Service at the Brigham Hospital. Half-courses, all day, for one month, throughout the year. Peter Bent Brigham Hospital. Assistant Professor CHEEVER and Dr. HOMANS.*

Students will serve as assistants to the hospital staff in the routine ward, operating room, and laboratory work of the hospital. The course is limited to six students.

Surgery 2. Clinical Work at the Boston City Hospital.

(a) Clinical and laboratory work, half-courses, all day, except Saturday and Sunday, for one month, throughout the year. Professor E. H. NICHOLS* and Dr. McIVER WOODY.* Boston City Hospital and Laboratory of Surgical Pathology. Includes work at the Boston City Hospital, mornings, and laboratory work at the Harvard Medical School, afternoons. (b) Dresser's Service at the Boston City Hospital, half-courses, under the direction of Assistant Professor J. B. BLAKE, all day, for a month, throughout the year, at the Boston City Hospital, under hospital administration. (c) Dresser's Service at the Haymarket Square Relief Station, half-courses, all day, for one month, throughout the year, under the direction of Assistant Professor J. B. BLAKE, under hospital administration; limited to four students.

Surgery 3. Clinical Clerk Service at the Massachusetts General Hospital. Half-courses, all day, for one month, throughout the year. Massachusetts General Hospital. Professor C. A. PORTER and Assistant Professor C. L. SCUDDER.

Students will serve as assistants to the hospital staff in the routine ward, operating room, and laboratory work of the hospital. The course is limited to four students.

Surgery 4. Clinical Clerk Service at the Children's Hospital. Quarter-courses, afternoons, for one month, throughout the year. Children's Hospital. General Surgery. Dr. W. E. LADD for Dr. JAMES S. STONE.†

Students will serve as assistants to the hospital staff in the routine ward, operating room, and laboratory work of the hospital. The course is limited to four students.

Surgery 5. Genito-Urinary Surgery. Half-courses, all day, or quarter-courses, forenoons, for one month, throughout the year. Boston City Hospital. Clinical Professor PAUL THORNDIKE and Dr. H. H. HOWARD.

* Absent on war service.

† This course can be taken in conjunction with *Orthopedic Surgery 2*, mornings for one month, to make a full half-course of practical dresser service at the Children's Hospital. In this way the student's whole day for a month will be spent at the Children's Hospital.

Instruction will consist of ward work, taking of histories, the witnessing of and assisting at operations, the reporting of the progress of cases, and seeing the end results. Conferences with the students will be held from time to time. Technic of cystoscopy will be demonstrated.

With consent of Clinical Professor Thorndike a limited number of students may take this course as a half-course, all day, devoting the afternoon to the study of ward cases.

Surgery 6. Genito-Urinary Surgery. Quarter-courses, forenoons, for one month, throughout the year. Dr. J. D. BARNEY. Massachusetts General Hospital.

The student will be assigned as assistant in the clinic and will take part in the routine work, case-taking, examination of patients, diagnosis, and treatment. Operations and after-care of major operative cases will be followed in the wards. Instruction will be given in cystoscopy and in laboratory methods of diagnosis.

Surgery 7. Surgical Research. Half-courses, all day, for one month, throughout the year. Work will consist of investigation of suitable problems chosen by the student after consultation with the instructor. Harvard Medical School, Laboratory of Surgical Research. Building E. Dr. WILLIAM C. QUINBY.

ORTHOPEDIC SURGERY.

Orthopedic Surgery 1. Prescribed Course. Afternoons throughout the year.

This course forms a part of the required combined course.

The exercises are clinical, and are given in the orthopedic clinics and wards of the Children's Hospital and of the Massachusetts General Hospital. The instruction is given daily each afternoon in the week, and is so arranged that opportunities are given for the examination of cases, with systematic note taking, combined with instruction successively in symptoms, diagnosis, the principles and details of treatment, with instruction in the common operations of orthopedic surgery as opportunity offers.

Orthopedic Surgery 2. Quarter-courses, mornings, throughout the year.

This course is offered in the wards of the Children's Hospital, and in the wards and orthopedic out-patient department of the Massachusetts General Hospital, and in the course the student will serve as dresser and assistant, having an opportunity to make the regular visits, to examine and follow the course of operative and non-operative cases, to receive

instruction in diagnosis and treatment, to be present at operations, and to receive instruction in the use of plaster of Paris and apparatus. The course will occupy the entire morning.

The course is limited to two men.

Orthopedic Surgery 3. Quarter-courses, afternoons, during July, September, October, December, and January. In this course the students serve as assistants in the orthopedic out-patient department at the Children's Hospital.

This course is intended for students who have completed Orthopedic Surgery 1.

This course is limited to two men.

OBSTETRICS.

Obstetrics 1. Prescribed Course. Half-courses, all day, throughout the year.

This course fills one period of the regular fourth-year curriculum. It will be given at the Boston Lying-in Hospital and at the Medical School. During half of the course the student will lodge at the hospital, and devote his time chiefly to attendance on cases in the out-patient clinic. In the course of this work he will be called on to assist at operations in the out-patient department, and will be expected, when his other duties permit, to make ward visits with the physician on duty in the house. In the other half of the course he will conduct the convalescence of the cases delivered by him during his resident service, and make daily ward visits at which clinical instruction will be given in the general management of normal and abnormal labor, in the study of the puerperal convalescence, and in the care of the young infant. Detailed written reports of the out-patient cases attended will be required. His clinical work will be done under the supervision of the department and of the hospital staff on duty, and he will receive careful instruction in the proper methods of delivery and the care of the convalescence. An opportunity will be given each student to care of pregnancy in the Pregnancy Clinic, where instruction in pelvimetry and in diagnosis of presentation and position by external examination will be given. Case teaching on four afternoons during the week will be an important feature of the course. The student will also be given at the Medical School a course of demonstrations in operative obstetrics during the first week of each course, and each student will have an opportunity to perform the different operations on the manikin.

GYNAECOLOGY.

Gynaecology 1. Prescribed Course. Throughout the year.

As a part of the combined course of the fourth year each student will receive two weeks of clinical teaching in gynaecology during the fore-

oon of each day. Clinics are held in the out-patient departments of the Free Hospital for Women, Boston City Hospital, and the Boston Dispensary, and the student is instructed in diagnosis and the treatment of ambulatory cases.

*Gynaecology 2.** Half-courses or quarter-courses, forenoons, throughout the year.

The courses will be given at the Free Hospital for Women by Professor P. GRAVES, assisted by Drs. F. A. PEMBERTON and R. G. WADSWORTH, and at the Boston City Hospital by Dr. E. B. YOUNG, assisted by Drs. R. M. GREEN and F. L. GOOD. An attempt is made in this course to give the student as comprehensive a view as possible of the subject of gynaecology. Diagnosis is taught by a large number of pelvic examinations made in the out-patient department and in the hospital wards. It is designed that the student shall see the patient previous to operation, observe the operation, make daily ward visits, and then have an opportunity to examine the patient at the time of discharge from the hospital.

Operative gynaecology is taught in the operating room, where the various major and minor procedures are demonstrated. Students who show special aptitude are allowed to take some part in the clinical work of the hospital and occasionally in the operations.

Gynaecological pathology is taught by the study of gross specimens taken from the operating room and by drawing from microscopical sections. This department of the course is under the immediate instruction of Dr. F. A. PEMBERTON at the Free Hospital for Women and Professor J. B. MALLORY at the Boston City Hospital.

Each student is required to write a thesis on some gynaecological subject. Each course will be limited to sixteen students.

DERMATOLOGY AND SYPHILOLOGY.

Dermatology 1. Quarter-courses, forenoons, October, December, February, and April.

Instruction in clinical dermatology will be given at the Massachusetts General Hospital, both in the out-patient department and in the ward for skin diseases. The work consists of clinical demonstrations and discussions in which the student is required to perform his share. This lasts one and one-half hours a day and afterwards a case is assigned which the student studies and writes upon every evening with the aid of his books. Students electing Course 1 are strongly recommended to elect Course 2.

* Those electing this course may substitute dermatology, syphilology, or neurology, the combined course.

Dermatology 2. Quarter-course, afternoons, in January.

This course consists of microscopical work and is given on five afternoons a week at the Harvard Medical School. Students electing this course will be trained in the histological study of the commoner diseases of the skin.

Dermatology 3. Half-courses, all day, October and December.

Opportunity is offered to one man in each of the above months, throughout the year, to act as assistant house-officer to the out-patient department and skin ward of the Massachusetts General Hospital. Those electing this course will be expected to conform to the rules of the hospital.

Syphilology 1. Quarter-courses, forenoons, throughout the year, beginning in July.

Instruction in clinical syphilis will be given daily at the Massachusetts General Hospital.

Limited to four students per month.

DISEASES OF THE NERVOUS SYSTEM.

Neuropathology 1. Half-courses and quarter-courses, forenoons, afternoons, or all day, throughout the year, preferably the second half-year.

The case-method is followed. The report of a selected case will be worked up by the student (as if for publication), based upon the personal employment of approved neuropathological methods. The student taking the course on the all-day plan (less conveniently through other plans) is permitted to take part in from ten to twenty autopsies under the Commission on Mental Diseases.

Limited to two during a given month. Consultation with the instructor in advance will secure the choice of a case in line with the student's later special work.

Neuropathology 2. Half-courses and quarter-courses, forenoons, afternoons, or all day, throughout the year.

Clinico-pathological methods in neurology and psychiatry and allied problems of internal medicine and surgery. Students taking this course for several months may, with the consent of the authorities, serve as clinical clerks or laboratory externes in the Psychopathic Hospital, or under special conditions, in other state institutions. Students will be permitted to attend staff conferences at the institutions where their work is carried on. They may be required to submit reports or theses concerning observations made.

The clerkships and externships are limited to two in a given month. The instructor should be consulted in advance.

Neurology 1. Quarter-courses, forenoons, June, July, September, and October.

The design of these courses is to continue the work of the third year in its practical relations. The aim will be to give the student an opportunity for the independent study of cases. To this end the following methods of instruction in general will be adopted:—

- (1) Daily informal conferences on neurological topics.
- (2) History-taking and personal examinations of patients at the out-patient department of the Massachusetts General Hospital.
- (3) Assistance in the clinic.
- (4) The preparation of reports bearing on the subjects studied and such original investigation as the time permits, together with a review of the literature bearing on special topics apart from text-books, is urgently advised.

In the final marking much account will be taken of the daily practical work of the student.

Neurology 2. Opportunities will be allowed selected men desirous of giving special attention to neurology with the intention of entering this field of medicine.

Psychiatry 1. Half-courses or quarter-courses, forenoons, or all day, throughout the year.

A clinical course in which, by permission of the authorities, the wards and laboratories of the Psychopathic Hospital may be used and the daily staff-conferences attended. In addition to a complete representation of mental diseases, there is much material of a neurological and general medical interest, so that students are advised to take the work later rather than earlier in the year. Under certain circumstances students taking the course for several months may be appointed to internships by the hospital authorities.

SEMINARY IN DISEASES OF THE NERVOUS SYSTEM.

A voluntary weekly conference for all fourth-year students taking electives in neuropathology, neurology, or psychiatry, and for graduate students taking allied courses, has been arranged by the heads of the departments mentioned. The exercises will be partly in the nature of reviews from recent literature, partly clinical or pathological demonstrations, and partly the presentation of theses and reports by students.

OPHTHALMOLOGY.*Ophthalmology 1.* Prescribed Course.

As a part of the prescribed course, each student will spend forenoons for two weeks in attendance at clinical exercises devoted to diagnostic methods, diagnosis, and treatment, at the Massachusetts Charitable Eye and Ear Infirmary.

*Ophthalmology 2.** Half-courses, forenoons.

The work will consist of personal instruction in the use of the ophthalmoscope and other instruments of precision. An opportunity will be given to work in the out-patient department of the Massachusetts Charitable Eye and Ear Infirmary and to observe and study cases in the wards. In addition there will be instruction in ophthalmic operations, with opportunity to witness their exemplification in the operative work of the hospital. Limited to four men.

*Ophthalmology 3.** Quarter-courses, forenoons.

This course will be devoted to instruction in the use of the ophthalmoscope. Limited to four men.

OTOLOGY.*Otology 1.* Prescribed Course.

For two weeks of the combined course each student will receive clinical instruction in otology, forenoons, at the Massachusetts Charitable Eye and Ear Infirmary.

Otology 2. Quarter-courses, forenoons, June, and October to January.

In this course the student will serve as a volunteer assistant, attending the clinic in the out-patient department of the Massachusetts Charitable Eye and Ear Infirmary, and assisting at operations in the house.

Otology 3. Half-courses, all day, throughout the year, providing proper arrangements can be made.

This course will consist of the work of Otology 1 plus afternoon work as a clinical clerk in the house. In addition to opportunities for the study of cases they will receive instruction in the anatomy, histology, and pathology of the ear.

LARYNGOLOGY.*Laryngology 1.* Prescribed Course.

Forenoons of two weeks of the combined course are devoted to clinical instruction in laryngology and rhinology, with training in the use of instruments at the Massachusetts General Hospital.

* Special arrangements may be made for these courses after men have completed *Ophthalmology 1.*

aryngology 2. Quarter-courses, forenoons, throughout the year, Massachusetts General Hospital.

These courses are chiefly clinical in character; but in addition to the routine work of the clinic, instruction will be given in diagnosis, treatment, and applied anatomy and pathology. Each student is required to follow and report on some special selected subject. A student electing this course may substitute another subject in place of the required laryngology of the combined course.

Each course limited to two.

COMBINED COURSE IN SPECIALTIES

Two periods in the fourth-year course of each student will be devoted to a combined course, including work in gynaecology,* laryngology,* ology, ophthalmology, in the forenoons, and orthopedic surgery and elective in the afternoons. Each student will be assigned for two weeks each to the following subjects, and at the following clinics, from one to twelve.

Gynaecology. Free Hospital for Women, Boston City Hospital, Boston Dispensary, throughout the year by assignment. All students should report for the first exercise at the Free Hospital for Women.

Laryngology. Massachusetts General Hospital.

Ophthalmology and Otology. Massachusetts Charitable Eye and Ear Infirmary.

Each student will be assigned for one month on four afternoons a week to orthopedic surgery at the Children's Hospital or the Massachusetts General Hospital at 2.30.

Details of the work in these sections are described among courses of the respective departments.

* Those electing *Gynaecology 2* or *Laryngology 2* may substitute as a part of the combined course, two weeks in one of the following subjects, dermatology, syphilology, neurology.

TABULAR VIEW OF UNDERGRADUATE COURSES

FIRST YEAR — First Half-Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10			<i>October and November.</i> Anatomy. Lecture or Demonstration.			<i>October to January.</i> Lecture.
			<i>December and January.</i> Histology and Embryology. Lecture.			
10-1			<i>October and November.</i> Anatomy. Dissection.			<i>October to January.</i> Examination or Laboratory.
			<i>December and January.</i> Histology and Embryology. Laboratory.			
2-3			<i>October and November.</i> Histology and Embryology. Lecture.			
			<i>December and January.</i> Anatomy. Lecture or Demonstration.			
3-5.30			<i>October and November.</i> Histology and Embryology. Laboratory.			
			<i>December and January.</i> Anatomy. Dissection.			

PHYSIOLOGY. February

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10			Lecture or Conference.			
10-1			Laboratory Experiments or Demonstration.			
			<i>March, April, May.</i>			
9-10			Lecture or Conference.			
10-1			Laboratory Experiments or Demonstration.			
			BIOLOGICAL CHEMISTRY.			
2-3			Lecture. Daily except Saturday.			
3-5.30		Laboratory.	Laboratory and Conference.		Laboratory.	

SECOND YEAR. — First Half-Year

	OCTOBER	NOVEMBER	DECEMBER	JANUARY
9-12		Pathology. Laboratory.	9-10	Monday, Wednesday, and Friday. Surgery. Clinical Lecture. Nichols, B. C. II.
			9-12	Tuesday, Thursday, and Saturday.
			10.30-12	Monday, Wednesday, and Friday. First two weeks. Pathology. Laboratory. Second two weeks. Parasitology. Laboratory.
12-1		Pathology. Lecture. Daily.	12-1	First two weeks. Pathology. Lecture. Second two weeks. Parasitology. Lecture.
2-3		Bacteriology. Lecture. Daily except Saturday.		Surgical Pathology. Tuesday and Thursday; Friday 2-4. Pharmacology. Monday and Wednesday; Friday 4-5.
3-5.30		Bacteriology. Laboratory. Daily except Saturday.		

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10	Medicine M. G. H. Edsall	Neurology M. G. H. Taylor	Surgery B. C. H.	Medicine M. G. H. Edsall †	Surgery M. G. H.	Medicine ‡ B. C. H. Sears
10-12	Section Work Anatomy, Medicine, Surgery See Section Schedules					
1-2	Pharmacology	Clinical Pathology Walker Bldg. D	Pharmacology	Clinical Pathology Walker Bldg. D	Clinical Pathology Feabody Bldg. D	
2-3	Pharmacology Laboratory Half the class <i>Feb., March, April</i> <i>May 1-5</i>	Medicine Bldg. A, Room 201 Edsall †	Pharmacology Laboratory Half the class <i>Feb., March, April</i> <i>May 1-5</i>	Obstetrics Newell Bldg. D		
3-4	Pharmacology Laboratory Half the class <i>Feb., March, April</i> <i>May 1-5</i>	Surgery Bldg. D, Room 221	Neuropathology <i>May 1-5</i>	Surgery Bldg. D	Pharmacology	
4-5						

† Minot first six weeks. ‡ Minot first six weeks, M. G. H.

THIRD YEAR. — First Half-Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-12 or 12-30- 1.30	Section Work. See Section Schedules					
12-1 or 12-30- 1.30	Medicine P. B. B. H. Christian	Surgery M. G. H. and B. C. H.	Surgery P. B. B. H. Cheever	Medicine Bldg. A, Room 201 Sears or Edsall	Pediatrics Children's and Infants' Hospitals Morse	Syphilology <i>Sept. 28 to Nov. 23</i> M. G. H. Smith. Neurology <i>Nov. 30 to Dec. 21</i> M. G. H. Taylor. Psychiatry. <i>Jan.</i> Psychopathic.
1 or 1.30 -2	Luncheon Period					
2-3	Hygiene	Dermatology <i>Oct. Nov.</i> Syphilology <i>Dec., Jan.</i>	Hygiene	Medicine Bldg. A, Room 201, Edsall	Medicine P. B. B. H. Christian	
3-4	Hygiene Laboratory Surgery Recitation	Obstetrics Newell, Bldg. A Room 201	Hygiene Laboratory Surgery Recitation	Surgery Bldg. A, Room 201	Clinico-pathological Demonstration P. B. B. H. Christian and Wollbach	
4-5		Pediatrics Bldg. A, Room 201		Dermatology <i>October.</i> Obstetrics <i>Nov., Dec., Jan.</i>		

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-12	Section Work. See Section Schedules					
12-1 or 12-30- 1-30	Medicine P. B. B. H. Christian	Surgery M. G. H. and B. C. H.	Surgery P. B. B. H. Cheever	Medicine Bldg. A, Room 201 Sears or Edsall	Pediatrics Children's and Infants' Hospitals Morse	Psychiatry <i>Feb., Mar., Apr.,</i> Psychopathic Neurology <i>May</i> M. G. H.
1 or 1-30-2	Luncheon Period					
2-3	Orthopedic Surgery Bldg. A, Room 201	Medicine Sears Bldg. A, Room 201	Medicine P. B. B. H. Christian	Medicine P. B. B. H. Christian	Surgery Bldg. D, Room 221	
3-4	Surgery Bldg. A, Room 201	Pediatrics Bldg. D, Room 221	Psychiatry <i>Feb., Mar.,</i> Gynecology <i>April, May</i>	Orthopedic Surgery <i>Feb., March</i> Laryngology <i>April, May</i>	Clinico-Pathological Demonstration P. B. B. H. Christian and Wolbach	
4-5		Obstetrics Bldg. A, Room 201	Legal Medicine Bldg. A, Room 201	Dermatology Bldg. A, Room 201 <i>April, May</i>		

CLINICAL ADVANTAGES

The Medical Department of the University is established in Boston, in order to secure for Anatomy, Pathology, and the various clinical subjects, those advantages which are found only in large cities. The following clinics and hospitals of Boston are utilized extensively for clinical exercises for medical students, who are admitted freely to the out-patient departments, wards and operating rooms of these hospitals:—

The Peter Bent Brigham Hospital.—This general hospital has been in active operation since February, 1913. The hospital is for general medical and surgical cases, and is situated on ground adjacent to the Medical School buildings. There are in all two hundred beds, and there is a medical and surgical out-patient department which is open for patients throughout the day. Dr. HENRY A. CHRISTIAN, Hersey Professor of the Theory and Practice of Physic, and Dr. HARVEY CUSHING, Moseley Professor of Surgery, in the Harvard Medical School, have been appointed by the trustees of the Hospital Physician-in-chief and Surgeon-in-chief respectively.

The Collis P. Huntington Memorial Hospital.—This Hospital, which has been erected by the Cancer Commission of Harvard University on the Medical School grounds, affords opportunity for the study of human tumor cases, with the advantage of a close approximation of clinical and laboratory facilities. The aim of the hospital is the study of special problems with the view of adding to the knowledge of the natural history and the rational treatment of tumors, and also to be of public service in affording means for early diagnosis and in carrying out treatment or giving advice regarding therapeutic measures. Accommodations are provided for twenty-five in-patients; out-patients are also received at stated hours.

During the past year, seven hundred and sixty-six new patients were treated in the house and out-patient department.

The Massachusetts General Hospital.—During the past year, six thousand six hundred and ninety-nine patients were treated in the wards, six thousand and forty-five patients were treated in the Emergency Ward, and there were two hundred and five thousand five hundred and twenty-four visits to the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, or demonstrated in the amphitheatres. Operations are numerous, and are performed in the surgical building. Last year there were four thousand one hundred and ninety-one operations in the house and three thousand one hundred and twenty-one in the out-patient department and emergency ward. Clinics in the following special branches have been established

connection with the out-patient department: Dermatology, Laryngology, Diseases of the Nervous System, Children's Diseases, Orthopedic Surgery, Diseases of the Genito-Urinary System, and Syphilology. Two scholarships, of \$500 each, are open annually to the house pupils graduates.

The Boston City Hospital.— During the past year, twenty-three hundred and one hundred and eighteen cases were treated in its wards, and there were one hundred and eighty-three thousand and fifteen visits in its out-patient departments. The medical wards always contain cases of acute diseases, and changes are taking place constantly. Opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, fifty thousand street accidents are treated yearly. Surgical operations are performed in the theatre. There are special services for diseases of women, of the ear, the eye, the skin, the nervous system, the nose and throat, and the genito-urinary system. Diseases of women and of the nervous system are also largely treated in the out-patient department. Clinical instruction is given by the physicians and surgeons two or more times a week.

In this hospital, the facilities for witnessing Operative Surgery are surpassed. Twice a week operations are performed in the presence of a large class. The number of these operations is large, reaching over seven hundred a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston Consumptives' Hospital.— This is a thoroughly modern hospital of four hundred and twenty-five beds for the treatment of tuberculosis, including a special hospital for infants and children of sixty beds. The Hospital affords facilities for the demonstration of all stages and forms of the disease as well as the various forms of treatment. The institution is closely affiliated with the Harvard Medical School. Assistant Professor Locke is Chief of Staff, and Dr. Frank Hunt, Instructor in Medicine, is Resident Physician. Under their direction students in the Harvard Medical School will have practical instruction in tuberculosis in the wards of this Hospital.

The Boston Lying-in Hospital.— Nearly twelve hundred patients received treatment during the last year in the Hospital, of whom nine hundred and thirty-five were delivered. In the out-patient department, one thousand three hundred and eighty-six cases were attended by the hospital externes, who are appointed from the third and fourth-year students. Clinical instruction is given, in these cases, by the obstetricians in the out-patient department, by the house physicians, and by the Alumni Assistant.

The Boston Dispensary. — Over one hundred and seventeen thousand visits were made by out-patients at this charity during the past year. Students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery. The opportunities in children's work are unusually good, as over one-third of the out-patients are children and there is, in addition, a well-equipped Hospital for Children, with twenty-six beds chiefly for medical cases.

Infants' Hospital (Roth Memorial Building). — The wards of the Hospital are devoted entirely to the medical care of infants. The material of the Hospital is used throughout the year for teaching both students and graduates. Sixty-two beds.

The Children's Hospital. — In April, 1914, the new buildings of the Hospital on Longwood Avenue, adjacent to the Harvard Medical School, were opened. During the past year three thousand two hundred and eighty-seven cases were treated in the wards and forty-five thousand four hundred and thirty-seven visits were made to the out-patient departments. Instruction in pediatrics, surgery, and orthopedic surgery is given by members of the hospital staff.

Since September, 1917, four intensive courses in military Orthopedic Surgery have been given to surgeons detailed for the purpose by the Surgeon General of the United States.

The McLean Hospital. — During the past year a daily average number of two hundred and eleven patients, received from all parts of the country, were under treatment. Advanced methods of treatment are employed, including physical exercise, occupation, massage, hydrotherapy, etc., applied by persons expert in these methods. In the laboratories, pathological and psychological work is carried on in immediate connection with the clinical studies and treatment of cases. There is a good special library of works in psychiatry and neurology, and a large list of American and foreign journals available for study. Clinical conferences are regularly held by the Medical Staff for the discussion of all cases admitted, including a study of the history, diagnosis, prognosis, and treatment of each case. These exercises and clinical demonstrations in the wards are available for a limited number of students.

The Boston State Hospital. — During the past year four thousand and fifty-three patients were under treatment. Clinical instruction is given at the Psychopathic Department, Fenwood Road, in general clinics to medical students, and there are in addition facilities for the special study of cases by students taking elective courses. Besides regular commitments, emergency, voluntary and temporary care cases are received; the

the number of patients admitted last year was one thousand nine hundred and nineteen, including many instructive examples of the various forms of mental disease.

The Psychopathic Hospital.—This is a state institution for acute, doubtful, and doubtful cases of mental disease (not for chronic cases, which latter go directly to the wards of the Boston State Hospital), situated on Fenwood Road, two blocks removed from the Harvard School grounds. The hospital was opened to patients in June, 1902. It has one hundred beds and receives patients at the rate of about one thousand a year. This large admission rate insures the presence at all times in the hospital wards of a varied clinical and pathological material. The out-patient department receives patients at the rate of over one hundred a year. The State Commission on Mental Diseases has equipped laboratories in the building.

The Massachusetts Charitable Eye and Ear Infirmary.—About seventy thousand visits are made yearly by patients in the out-patient department and forty-six hundred are treated in the wards, affording an opportunity to observe every variety of eye and ear diseases, together with the operations. The services are so arranged that it is possible to easily follow the patient through his entire course of treatment both in the ward and out-patient department.

The Free Hospital for Women.—This hospital is devoted exclusively to the surgical treatment of the diseases peculiar to women. The hospital has a capacity of sixty-three beds. Operations are performed on Tuesdays, Wednesdays, and Thursdays throughout the morning. Physicians and medical students are invited to attend the operations and the medical students visit with the Visiting Surgeon. Out-patient clinics are held every day in the week, beginning at nine o'clock in the morning. The clinics average from fifteen to thirty in attendance. Post-graduate courses in gynecological examinations are given in these clinics. A well-equipped laboratory is connected with the institution, where instruction in gynecological pathology is given. A library containing the principal works on gynecology is available for the use of students and visiting physicians.

LIBRARIES

The central library of the School is housed in Charles B. Porter Hall in the Administration Building, and in the other buildings are branch libraries. By an arrangement with the Peter Bent Brigham Hospital the library facilities of the two institutions are combined in the central library. This library is open from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 1 P.M. The present number of volumes in the library

is about thirty-two thousand, and in addition there are fifty-five thousand one hundred and twenty-three pamphlets and two hundred and seventy-seven current periodicals kept on file.

The College Library at Cambridge is open to the students of this School.

The Boston Public Library is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office, or deposited with the Bursar the sum of fifty dollars, may also use this library. The Bursar will furnish on application the necessary certificate of bond or deposit.

The Boston Medical Library, No. 8 The Fenway, contains about eighty-four thousand bound volumes and fifty-six thousand pamphlets, and nearly six hundred and fifty current periodicals are on file. This very valuable library is open to those who desire to consult medical literature, on week days from 9.30 A.M. to 10 P.M., on Saturdays till 6 P.M.

WARREN ANATOMICAL MUSEUM

The Warren Anatomical Museum was founded in 1847 by JOHN CORLISS WARREN, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son to JOHN WARREN, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures. It occupies the upper three floors of the Administration Building. Its Curator is Dr. WILLIAM FISKE WHITNEY.

The collection has about eleven thousand specimens, illustrating both normal and pathological anatomy. Students may have access to these specimens at any time upon application to the Curator.

Besides dissections and serial sections of many bones, the anatomical collection includes many corrosion preparations, plaster and papier maché models of bones, organs, and various parts of the body, and frozen sections.

The pathological collection is being constantly enlarged by the addition of numerous specimens, many of them preserved in their natural colors.

The American Ambulance of Paris has contributed a large number of specimens, from the European War, showing the effects of bullet wounds of the head and extremities, and the lesions of "gas gangrene." Also photographs of apparatus and the results of operation. The whole forms a most valuable collection, especially for a student of military surgery.

HOSPITAL APPOINTMENTS

About eighty appointments as internes and assistants are made annually to hospitals in and about Boston for terms of service varying from six months to two years. These appointments are made after a competitive examination. In recent years almost every graduate of the Harvard Medical School desirous of hospital experience has obtained an appointment in some one of these hospitals.

THE CANCER COMMISSION OF HARVARD UNIVERSITY

The Cancer Commission of Harvard University was founded in 1899, by the late Mrs. Caroline Brewer Croft, who left in her will a sum of money for the investigation of the cause and treatment of cancer. Dr. J. Collins Warren and Dr. Henry K. Oliver were the Trustees of this fund. Since that time other sums have been contributed for cancer research and the Cancer Commission of Harvard University was organized in 1909, consisting of the following members: J. Collins Warren, M.D., Chairman; Henry K. Oliver, M.D., and J. Collins Warren, M.D., for the Caroline Brewer Croft Fund; Henry P. Walcott, M.D., and Arthur T. Cabot, M.D., for the Corporation of Harvard College; William T. Councilman, M.D., and Theobald Smith, M.D., for the Harvard Medical School. To fill the vacancy caused by the death of Dr. Arthur T. Cabot, Dr. Edward H. Bradford was appointed in 1912; on the resignation of Dr. Theobald Smith, Dr. E. E. Tyzzer was appointed in 1916. Mr. Roger Greenough is Treasurer, Dr. Robert B. Greenough, Director, and Dr. Channing C. Simmons, Secretary of the Commission.

Under this Commission research on cancer problems has been carried on, and nine reports of research work have been published. Investigations were carried on in the laboratories of the Harvard Medical School, and at the Massachusetts General Hospital until April, 1912, when the Collis P. Huntington Memorial Hospital (page 99) was completed. The work of the Cancer Commission is at present carried on in the laboratories of the Harvard Medical School and in the Huntington Hospital. Robert B. Greenough, M.D., Assistant Professor of Surgery, is Surgeon in charge of the Hospital, Edward H. Risley, M.D., and Channing C. Simmons, M.D., are Surgeons; Gerald Blake, M.D., is Physician; Henry A. Christian, M.D., and Francis W. Peabody, M.D., (on leave) are Consulting Physicians; D. Crosby Greene, M.D., (on leave) is Consulting Laryngologist; Harry A. Barnes, M.D., (on leave) is Assistant Consulting Laryngologist; George R. Minot, M.D., is Assistant Consulting Physician; George A. Leland, M.D., (on leave) is Surgeon to Out-Patient Department; and J. Homer Wright, M.D., is Pathologist in Charge of Diagnosis Service. Miss Anna Gibson is Matron and Superintendent of the Hospital.

William Duane, Ph.D., Professor of Bio-physics, is Research Fellow of the Cancer Commission in charge of the research work on radium and radioactive substances, and their preparation for therapeutic use. William T. Bowie, Ph.D., is Research Fellow in Biology; Clarence C. Little, S.D., (on leave) in Genetics; and Henry Lyman, M.D., (on leave) in Chemistry.

HARVARD INFANTILE PARALYSIS COMMISSION

A Commission for the purpose of assisting in the early recognition, treatment, and study of infantile paralysis was appointed by the Corporation September 25, 1916. The Commission consists of Dr. Robert W. Lovett, Chairman, Professor of Orthopedic Surgery, Dr. Milton J. Rosenau, Professor of Preventive Medicine and Hygiene, Dr. Edwin H. Place, Assistant Professor of Pediatrics, Dr. Francis W. Peabody, Assistant Professor of Medicine, and Roger Pierce (Secretary).

Shortly thereafter, the members of the Harvard Infantile Paralysis Commission were appointed agents of the State Department of Health, thereby assuring cooperation between the Commission and the Commonwealth. This action widely increased the purposes and also the responsibilities of the Commission, in that it at once took cognizance of the disease and its after-effects throughout the state. The work of the Commission is being prosecuted along three lines. Dr. Peabody and Dr. Place direct the early diagnosis and treatment of acute cases; Dr. Lovett directs the problem of after-care of the paralytics; and under the supervision of Dr. Rosenau, studies are being made of the cause, mode of transmission, period of incubation and other unsolved problems relating to the disease.

The work of the Commission is being carried on in conjunction with various clinics in different parts of the state. Clinics for the care of paralytics are established at the Children's Hospital and at the Massachusetts General Hospital, and cooperation has been effected with other hospitals and with other agencies throughout the State. Dr. E. E. Tyzzer, Professor of Comparative Pathology, is making a study of paralysis in lower animals, and Dr. E. E. Southard, Professor of Neuropathology and Director of the Psychopathic Hospital, is helping the Commission.

The Commission is supported entirely by public subscription.

INDUSTRIAL HYGIENE

The Harvard Medical School is prepared to offer courses of instruction in Industrial Hygiene and facilities to investigate the problems of industry. Boston and its immediate vicinity offers exceptional opportunities for work of this kind. Within a short distance are found a great variety of

industries, and the School has the assurance of sympathetic coöperation through an advisory board of business men.

Under present conditions, instruction and research in industrial hygiene is centered about three subjects, chemistry, physiology, and medicine, and these subjects new departments will be created. In addition to the facilities so offered, courses will be developed in the pharmacological, sanitary, and social phases of industry, supplementing the work of the School of Public Health.

Fellowships and scholarships are available for those properly qualified.

GRADUATE SCHOOL OF MEDICINE

On October 1, 1912, graduate instruction in medicine was organized as a Department of the Faculty of Medicine of Harvard University, with a separate Dean and Administrative Board.

The object is, by better organization and the development of teaching facilities — both clinical and laboratory — to offer graduates in medicine opportunities to continue their studies in as thorough and scientific a manner as in the Medical School proper.

Adequate opportunities for study will be offered for those graduates who wish to review past studies and for those who wish to keep abreast of recent advances in medicine. Other courses will be offered for those who are interested in special subjects, and the excellent opportunities for advanced study and for research in all departments of medical science will be made available for those who are qualified by previous training to undertake such work. Thus graduates in medicine, both of remote and recent date, whether desiring fundamental reviews or in quest of the attainment of higher standards, are provided for. Graduates of recognized medical schools will be accepted as students.

While all courses are intended primarily for those who hold degrees from recognized medical schools, certain courses in the scientific subjects are adapted to the needs of advanced students and teachers of science. Persons may be admitted to courses on the approval of the Administrative Board.

By special arrangement applicants in the following groups are accepted as "special class" students and receive a reduction in fees, particulars of which may be had on request:

Teachers in Medicine or Science in approved schools.

Those holding scholarships or fellowships from Harvard, from other acceptable institutions, or from governments.

Medical officers in the Army, Navy, or Public Health Service of the United States.

Missionaries.

Such other persons as the Administrative Board shall accept, on the basis that instruction is sought for the purpose of teaching or public service.

Undergraduate students of medicine may be admitted by vote of the Administrative Board to such courses as they are qualified to take. Special consideration for the needs of such students will be given in the plans for summer courses.

The laboratory facilities in the buildings of the Harvard Medical School and at some of the hospitals are available for graduate instruction, as are also abundant clinical opportunities of all kinds in the following institutions: —

Massachusetts General Hospital,	Children's Hospital,
Boston City Hospital,	Infants' Hospital (Roth Memorial Building),
Peter Bent Brigham Hospital,	Massachusetts Babies' Hospital,
Carney Hospital,	McLean Hospital,
Boston Dispensary,	Boston State Hospital,
Massachusetts Eye and Ear Infirmary,	Danvers State Hospital.
Boston Lying-in Hospital,	
Free Hospital for Women,	

Clinical and laboratory instruction will be conducted in small classes so that students may receive personal attention.

The fees for separate courses vary from \$5 to \$125, according to the nature of the instruction and the duration of the course. An extra fee is required for the use of material in laboratory, dissecting, and operative courses. A Registration Fee is charged each student, except in the case of "Hospital" Courses, and the Registration Fee entitles a student to register for any number of courses for the period of one year.

Graduates seeking admission to any of the graduate courses must first register their names at the office of the Dean of the Graduate School of Medicine, where all fees are payable, and obtain a receipt to be shown at the first exercise.

The Graduate School of Medicine will continue to offer courses during the period of the War. The demands upon its teachers for patriotic service in various forms cannot be foreseen in detail. Therefore the announcement of courses must be provisional, and application should be made in advance to the Dean of the Graduate School of Medicine, Harvard Medical School, Longwood Avenue, Boston, Mass.

FELLOWSHIPS AND SCHOLARSHIPS

FELLOWSHIPS

BULLARD FELLOWSHIPS. In 1891, WILLIAM STORY BULLARD, of Boston, gave the sum of fifteen thousand dollars for the establishment of three fellowships of five thousand dollars each "in memory of three physicians who were distinguished for their honorable personal character and for their professional services in this community." Accordingly the three following fellowships were established:—

THE GEORGE CHEYNE SHATTECK MEMORIAL FELLOWSHIP.

THE JOHN WARE MEMORIAL FELLOWSHIP.

THE CHARLES ELIOT WARE MEMORIAL FELLOWSHIP.

The income of the first two is two hundred and fifty dollars each, and of the last, two hundred and seventy-five dollars.

The income from any one or all of these fellowships may be paid to any student or member of the medical profession who shall be selected by the Administrative Board of the Medical School to make such original investigations in Medical Science as in their opinion will be most useful to the profession and to the community. The results of such investigations shall not, however, be published as a research performed under the grant of a Bullard Fellowship, unless the work shall have received the approval of the Committee. If published with the approval of the Committee, mention shall be made of the fact that the work was done under a Bullard Fellowship.

Holders of Bullard Fellowships are required to do an amount of work equivalent to not less than ten hours a week throughout the academic year and to present to the Committee at the end of the academic year a report on the amount and result of the work performed.

Applications for the Bullard Fellowships must be handed to the Dean or before May 1.

EDWARD HICKLING BRADFORD FELLOWSHIP. In 1918, an anonymous donor gave \$25,000 for the establishment of a fellowship in medical research to be known as the Edward Hickling Bradford Fellowship. The fellowship may be used for research or instruction separately or in connection with any other foundation in such manner as the Corporation may from time to time prescribe. Applications for this Fellowship must be in the hands of the Dean on or before May 1st.

THE JAMES JACKSON CABOT FELLOWSHIP; with an income of three hundred and fifty dollars. In 1906, Arthur T. Cabot, Samuel Cabot, and Guy C. Cabot gave six thousand dollars to establish the James

Jackson Cabot Fund in the Medical School. In 1912 Guy C. Cabot added four thousand dollars to this fund. The income remaining after adding a certain percentage to the principal each year is preferably, but not necessarily, to be used for a fellowship "to aid and encourage practical work in scientific medicine."

THE VICTOR EMANUEL CHAPMAN MEMORIAL FELLOWSHIP; with an income at present of eleven hundred and twenty-five dollars. Founded in 1917 by a number of persons who gave jointly the sum of approximately twenty-five thousand dollars in memory of **VICTOR EMANUEL CHAPMAN**, of New York, of the Class of 1913, who was killed in action over Verdun, June 23, 1916, while a member of the Flying Corps of the French Army. This fellowship is to be assigned to a French youth (or youths) for study in some department of Harvard University. For further particulars, see University Catalogue for 1918-19.

CHARLES FOLLEN FOLSOM TEACHING FELLOWSHIP. In 1908 eleven thousand eight hundred and forty-three dollars and sixty-four cents was given by more than sixty persons in memory of **Charles Follen Folsom**, A.B. 1862, M.D. 1870, Lecturer on Hygiene, 1877-79, on Hygiene and Mental Diseases, 1879-80, on Mental Diseases, 1880-82; Assistant Professor of Mental Diseases, 1882-85, and Overseer, 1891-1903. It was the desire of the givers that there be established in the Medical School a Charles Follen Folsom Teaching Fellowship in Hygiene or in Mental and Nervous Diseases, and that the incumbent receive the annual income of the fund, or such part of it as may be consistent with the standing rules of the Corporation in such cases. This fellowship, with an income of six hundred dollars, has been assigned to the Department of Hygiene until the further order of the President and Fellows.

HENRY P. WALCOTT FELLOWSHIP IN CLINICAL MEDICINE; with a stipend of one thousand two hundred dollars. Founded in 1910 by **FREDERICK CHEEVER SHATTUCK**, A.M., M.D., J.L.D. "The income to provide for the support of a Fellow in Clinical Medicine, who shall receive his appointment from the Corporation on nomination by the Jackson Professor of Clinical Medicine, who, while the holder of the Fellowship, shall not engage in private practice but devote his time to teaching and clinical research work."

WILLIAM O. MOSELEY, JR., TRAVELLING FELLOWSHIPS; two, with a stipend of one thousand eight hundred and fifty dollars each, for the purpose of studying medicine in Europe. In January, 1912, Mrs. William O. Moseley left a bequest of seventy-four thousand dollars to establish two travelling Fellowships, to be granted annually to two men who have attended the Harvard Medical School for three or four years, and who

have given evidence of their diligence and ability, the election of such men to be made by the President and proper officers connected with the Medical School. Applications for these Fellowships must be handed to the Dean on or before May 1st.

ARTHUR TRACY CABOT FELLOWSHIP. In 1913, Dr. and Mrs. Frederick C. Shattuck gave twenty-five thousand dollars for the establishment of a Fellowship in Surgery in memory of Arthur Tracy Cabot, M.D., of the class of 1872, Fellow of the Corporation. The holder of the Fellowship is not ordinarily to engage in active private practice while holding it but devote himself to the advancement of Surgery whether in the United States or elsewhere. The nomination to this Fellowship is by preference to be in the hands of the Moseley Professor of Surgery.

AUSTIN FELLOWSHIPS. Six teaching fellowships, of five hundred dollars each, have been established from the income of the Austin Fund and assigned to the Medical School.

HERBERT L. BURRELL FUND. The income of this fund, amounting to two hundred and sixty dollars annually, is to be devoted to the furtherance, directly or indirectly, of the art and science of surgery. The special disposition of the income of this fund is subject to recommendations of the Dean of the Harvard Medical School.

PROCTOR FUND. A bequest of fifty thousand dollars by Ellen Osborne Proctor for the purpose of promoting the study of chronic diseases. The income of this fund is to be devoted to the care in hospital of persons afflicted with chronic disease, and to investigations into the nature and treatment of the same. The special disposition of the income of this fund is under the control of the heads of the departments of Theory and Practice of Physic, Clinical Medicine, and Pathology.

WILLIAM H. THORNDIKE FUND. The income of this fund, amounting to two hundred and sixty dollars annually, is to be devoted to the furtherance, directly or indirectly, of the art and science of surgery. The special disposition of the income of this fund is subject to recommendations of the Dean of the Harvard Medical School.

SCHOLARSHIPS

The Cheever and Haven Scholarships are awarded to students of the first-year class. The Hayden Scholarship may be so awarded. All the other Scholarships are awarded to members of the three upper classes.

EDWARD M. BARRINGER SCHOLARSHIPS. From the estate of Edward M. Barringer, of Schenectady, N. Y., thirty thousand two hundred and thirteen dollars and forty-nine cents has been received as his residuary bequest establishing the "Edward M. Barringer fund." "And I direct

that the said 'President and Fellows' forever maintain from the income of said rest and residue (if the same shall be sufficient) two scholarships for students in said Medical School, the annual amount or value of such scholarships to be fixed from time to time by the said President and Fellows in their best discretion but at not less than \$300 and \$200 respectively; and with such conditions as to them shall seem best, to be called respectively 'Edward M. Barringer Scholarship No. 1,' and 'Edward M. Barringer Scholarship No. 2.'" These scholarships, with the incomes named above, are awarded to deserving students, preferably those of the fourth class.

THE MATTHEW AND MARY E. BARTLETT SCHOLARSHIP, with an income of four hundred and twenty-five dollars, was founded by Miss Fannie Bartlett of Boston, in memory of Matthew and Mary E. Bartlett, for the benefit of a worthy and meritorious student who is in need of financial assistance.

LUCIUS F. BILLINGS SCHOLARSHIP, with an income of two hundred and fifty dollars, was founded in 1900 from a bequest under the will of Lucius F. Billings. The income may be divided between two or more students.

JOHN WHITE BROWNE SCHOLARSHIP. Until further action by the Corporation this Scholarship, with an income amounting to eight hundred and fifty dollars, shall be awarded on nomination of the Dean of the Harvard Medical School to a young man of unusual promise to enable him to pursue scientific research for a year in the Harvard Medical School, or elsewhere.

DAVID WILLIAMS CHEEVER SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1889 by David Williams Cheever, M.D., LL.D., of Boston, of the Class of 1852. It is to be awarded to a poor and meritorious student of the first year, after three months' probation in the Medical School.

ORLANDO W. DOE SCHOLARSHIP. The bequest of ORLANDO WITHERSPOON DOE (A.B. 1865, M.D. 1869) was five thousand dollars. One-half of the income derived therefrom, amounting to one hundred and fifty dollars, "is to be given annually as a scholarship to a deserving student in the Medical department."

JOSEPH EVELETH SCHOLARSHIPS. Three Scholarships with an annual income of two hundred dollars each. Founded from the residuary bequest of thirty-seven thousand eight hundred and ninety-seven dollars and fourteen cents, made by Joseph Eveleth, of Boston, "for aiding deserving and indigent young men in obtaining an education in said College or any of the schools connected therewith." Three Scholarships on this foundation have been assigned to the Harvard Medical School.

HORACE PUTNAM FARNHAM SCHOLARSHIPS. Two Scholarships with an income of \$200 each. Founded in 1918 from a bequest under the will of Mrs. Horace Putnam Farnham as a memorial to her husband, for the benefit of meritorious students of limited pecuniary resources in the Harvard Medical School.

GEORGE HAVEN SCHOLARSHIPS, with an income of eleven hundred dollars, were founded in 1913 from a bequest under the will of George Haven, the income to be used annually for scholarships to deserving students of the first year in the Medical School, the amount of such scholarships to be at the discretion of the Scholarship Committee.

The **LEWIS AND HARRIET HAYDEN SCHOLARSHIP** for colored students was founded in 1894 from a bequest of Mrs. Harriet Hayden. The income, two hundred and seventy-five dollars, may be divided between two or more students.

HILTON SCHOLARSHIPS. Two Scholarships, with an income of two hundred and twenty-five dollars each, were founded in 1897 from a bequest of William Hilton.

WILLIAM OTIS JOHNSON SCHOLARSHIP, with an income of two hundred dollars, was founded in 1912 from a bequest under the will of Mrs. William O. Johnson, in memory of her husband, William Otis Johnson, M.D., of the Class of 1845.

CLAUDIUS M. JONES SCHOLARSHIP, with an income of three hundred and twenty-five dollars, is from a bequest of six thousand dollars by Claudius Marcellus Jones, of the Class of 1866, M.D. 1875.

ALFRED HOSMER LINDER SCHOLARSHIP, with an income of two hundred and fifty dollars, was founded in 1895 by Mrs. George Linder. It is to be awarded to a needy student who shall have proven himself to be of sound principles and marked ability.

The **JOSEPH PEARSON OLIVER SCHOLARSHIP,** with an income of four hundred and twenty-five dollars, was founded in 1904 by patients of the late Joseph Pearson Oliver, M.D. 1871, to be awarded "to such needy and deserving student of the Medical School as the Administrative Board shall annually recommend."

CHARLES B. PORTER SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1897 from a bequest of five thousand dollars by William L. Chase.

CHARLES PRATT STRONG SCHOLARSHIP, with an income of two hundred and fifty dollars, was founded in 1894 by friends and patients of the late Charles Pratt Strong, of the Class of 1876, M.D. 1881.

ISAAC SWEETSER SCHOLARSHIP, with an income of three hundred and twenty-five dollars at present, was founded in 1892 by Mrs. Anne M. Sweetser. The income is to be "devoted to the aid of poor students of ability who would not otherwise be able to continue the studies necessary for their profession."

The **JOHN THOMSON TAYLOR SCHOLARSHIP**, with an income of two hundred and fifty dollars, was founded in 1899 by Mrs. Frederic D. Philips in memory of her brother, John Thomson Taylor, who died in 1889. He was a student of the Medical School from 1887 to 1889.

EDWARD WIGGLESWORTH SCHOLARSHIP, with an income of two hundred and seventy-five dollars, was founded in 1897 by the family of the late Edward Wigglesworth, of the Class of 1861, M.D. 1865, the yearly income of the fund to be paid to a needy and deserving student of the Medical School whom the Administrative Board shall recommend.

FRANCIS SKINNER FUND. A fund of five thousand dollars was established in 1905, the income of which shall be placed at the disposal of the Dean of the Medical School to be used by him in small sums to meet the urgent needs of meritorious students in the payment of term-bills or other expenses. Two hundred dollars is available annually.

This fund remained as an anonymous gift until 1908, when by vote of the President and Fellows of Harvard College it was named the Francis Skinner Fund in honor of the late Francis Skinner, Esq., the donor.

COTTING GIFT. The income of a fund received from the late Dr. Benjamin E. Cotting will be given to such medical student or students as the Administrative Board may select, having regard to the pecuniary needs, intellectual capacity, faithfulness and earnest endeavor, rather than to highest scholarship merely. The amount to be awarded annually will be one hundred and fifty dollars.

JOHN FOSTER FUND. The income of the John Foster Fund, amounting to about one hundred and fifty dollars, is available in alternate years in the Law School and in the Medical School, for one or more meritorious students needing assistance. The next assignment in the Medical School will be made in 1919.

THE LOAN FUND OF THE MEDICAL CLASS OF 1879. The Medical Class of 1879 has given the sum of \$436.79 to be used as a loan fund to aid any student or students in the Medical School in accordance with the request of the Class, or, in the absence of such request, under the direction of the Faculty of Medicine.

Fellowships and Scholarships available in other Departments of the University as well as in the Medical School

THE FREDERICK SHELTON FUND FOR TRAVELLING FELLOWSHIPS AND SCHOLARSHIPS. *The income of this Fund is available for holders of any degree from Harvard University. For further particulars, see University Catalogue for 1918-19.*

THE CHARLES ELLIOTT PERKINS SCHOLARSHIP; with an income of three hundred dollars, "to be offered each year to a graduate of an Iowa College or University, in any of the graduate or professional departments of Harvard University." The terms of gift are quoted further in the University Catalogue for 1918-19.

THE JAMES A. RUMRILL SCHOLARSHIP; with an income at present of two hundred and twenty-five dollars. This Scholarship, founded in 1909 by Mrs. JAMES A. RUMRILL, in memory of her husband, JAMES AUGUSTUS RUMRILL, of Springfield, Mass., of the Class of 1859, will be offered each year to a properly qualified graduate of a college or university in Virginia, North Carolina, South Carolina, Florida, Georgia, Tennessee or Kentucky. The terms of gift are quoted further in the University Catalogue for 1918-19.

THE PRINCETON FELLOWSHIP; with a stipend of four hundred and fifty dollars. From a graduate of Princeton University, to be awarded to a graduate of that University studying in any department of Harvard University.

THE WILLIAM STANISLAUS MURPHY SCHOLARSHIPS; with an income of \$250 each, founded by WILLIAM STANISLAUS MURPHY, of the class of 1885, to be used for the collegiate education of men of the name of Murphy, who, in the judgment of the faculty prove deserving of this kind of encouragement. These scholarships are available for students in all departments of the University.

Applications should be made to Dean L. B. R. BRIGGS, the chairman of the Committee on General Scholarships and on the Sheldon Fund.

These scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work either in this School or in a preparatory course elsewhere.

Students who have not been able to obtain scholarships often find time and opportunity to do outside work of various kinds in the city.

Information with regard to all forms of pecuniary aid may be obtained from the Director of Scholarships. The Director will aid deserving students in obtaining work. Certain loan funds not enumerated above are at his disposal. Students requiring aid should visit the Director as soon as

possible to discuss with him their financial needs. The Director will also act in advisory capacity with the students in any matters not intimately associated with the curriculum.

Third-year students may apply for scholarships in January; second-year students, in February; first-year students, in March. All applications must be made before *May 1*.

Applications for the Cheever, Hayden, and Haven Scholarships must be handed to the Director of Scholarships on or before *December 31st*. These scholarships are open only to students who are members of the School at the time of application.

Blank forms, on which all applications for pecuniary aid must be made, may be obtained of the Director of Scholarships.

BOYLSTON MEDICAL PRIZES

These prizes, which are *open to public competition*, are offered for the best dissertation on questions in medical science proposed by the Boylston Medical Committee.

For 1918 there is offered a prize of three hundred dollars and the Boylston Prize Medal, for the best dissertation on the results of original research in medicine, the subject to be chosen by the writer. The Boylston Prize Medal will be added to the money prize only in case the winning essay shows special originality in the investigations detailed.

Presumably this prize will again be offered at some date after January 1, 1919.

Dissertations entered for this prize must be in the hands of the Secretary H. C. ERNST, M.D., Harvard Medical School, Boston, Mass., on or before December 31, 1918.

In awarding these prizes, preference will be given to dissertation which exhibit original work, but if no dissertation is considered worth of a prize, the award may be withheld.

Each dissertation must bear, in place of the author's name, some sentence or device, and must be accompanied by a sealed packet, bearing the same sentence or device, and containing within the author's name and residence.

Any clew by which the authorship of a dissertation is made known to the Committee will debar such dissertation from competition.

Dissertations must be printed or typewritten, and their pages must be bound in book form.

All unsuccessful dissertations are deposited with the Secretary, from whom they may be obtained, with the sealed packet unopened, if called for within *one year* after they have been received.

By an order adopted in 1826, the Secretary was directed to publish annually the following votes:—

1. That the Board does not consider itself as approving the doctrines contained in any of the dissertations to which premiums may be adjudged.
2. That, in case of publication of a successful dissertation, the author be considered as bound to print the above vote in connection therewith.

The Boylston Medical Committee is appointed by the President and Fellows of Harvard College, and consists of the following physicians: WILLIAM F. WHITNEY, M.D., *Chairman*; HAROLD C. ERNST, M.D., *Secretary*; WILLIAM T. PORTER, M.D., HENRY A. CHRISTIAN, M.D., EDWARD H. NICHOLS, M.D., JOHN WARREN, M.D., REID HUNT, M.D.

The address of the *Secretary* of the Boylston Medical Committee is HAROLD C. ERNST, M.D., Harvard Medical School, Boston, Mass.

Otological Prize.—For the best preparation illustrating the osseous anatomy of the ear or for the best thesis showing original work on an otological subject, a prize of twenty-five dollars is offered, open to fourth-year students.

Other Prizes.—The Bowdoin, Dante, Sumner and Toppan Prizes, offered by the Faculty of Arts and Sciences, are open to students in all departments of the University. Full particulars in regard to these prizes may be found in the University Catalogue for 1918-19.

DEGREES

ON NOVEMBER 26, 1917, DEGREES WERE CONFERRED AS FOLLOWS:—

M.D.

Alfred Cyril Callister, A.B. (*Univ. of Utah*) 1915.

John Arthur Foley, A.B. 1911.

Howard Osgood, A.B. 1911.

James Jackson Putnam, Jr., A.B. 1912.

Albert John Scholl, Jr., A.B. (*Leland Stanford Jr. Univ.*) 1913.

M.D. *cum Laude*

Eldon Durward Busby, A.B. (*McGill Univ.*) 1913.

Harry Whiting Woodward, A.B. (*Bowdoin Coll.*) 1910.

ON FEBRUARY 25, 1918, DEGREES WERE CONFERRED AS FOLLOWS:—

M.D.

William Bradford Adams, A.B. 1913.

Robert Winsper Angevine, S.B. (*Univ. of Rochester*) 1915.

Omar Perley Badger, A.B. (*Bowdoin Coll.*) 1914.

Charles Everett Blackway, A.B. (*Brown Univ.*) 1914.

Barry Hovey Burgess, A.B. (*Acadia Coll.*) 1912, A.M. (*Harvard Univ.*) 1914.

Owen John Cameron, A.B. (*St. Francis Xavier's Coll.*) 1914.

Hyman Cohen, A.B. 1915.

Thomas Donald Cunningham, S.B. (*Dartmouth Coll.*) 1913.

Robert Dudley Curtis, A.B. 1914.

Ernest Merrill Daland, A.B. (*Brown Univ.*) 1912.

Wallace Horne Drake, S.B. (*Dartmouth Coll.*) 1914.

Arthur Ford Geddes Edgelow, A.B. (*Trinity Coll., Conn.*) 1914.

Ralph Warner Ellis, A.B. (*Clark Univ.*) 1914.

Hubert Morton English, A.B. (*Univ. of Illinois*) 1914.

Harry Paul Finck, A.B. 1915.

Mervin Freeman, A.B. (*De Pauw Univ.*) 1913.

Joseph August Camile Gabriels, A.B. (*Holy Cross Coll.*) 1914.

Harold Quimby Gallupe, S.B. (*Tufts Coll.*) 1911.

Arthur Melville Goulding, A.B. (*Univ. of Toronto*) 1910.

Ellis Barksdale Gray, A.B. (*Trinity Coll., N. C.*) 1914.

Charles Smith Henderson, A.B. (*St. Francis Xavier's Coll.*) 1914.

Glover Elbridge Howe, S.B. (*Mass. Agricultural Coll.*) 1913.

Seth Francis Harrison Howes, A.B. (*Colby Coll.*) 1914.

- ury Hand Hun, PH.B. (*Yale Univ.*) 1914.
 ert Solomon Hyman, A.B. 1915.
 lph Montgomery Johnson, A.B. (*Cornell Univ.*) 1914.
 ant Setrag Keblajian, A.B. (*Anatolia Coll.*) 1913.
 eph Matthew Kuder, A.B. 1914.
 rman Lande, A.B. (*Yale Univ.*) 1915.
 es Rufus Lincoln, A.B. 1914 (1915).
 ert Mendon Lord, A.B. (*Brown Univ.*) 1914.
 rson Lawson MacGhee, S.B. (*Colby Coll.*) 1913.
 ward Aloysius McLaughlin, A.B. (*Brown Univ.*) 1914.
 ank Patrick McNamara.
 n Ross Marshall, A.B. 1913.
 rence Dimmick Millhoff.
 bert Addison Milliken, A.B. (*Princeton Univ.*) 1914.
 arles Carr Morrison, Jr., A.B. (*Bowdoin Coll.*) 1915.
 nuel Leo Morrissey.
 rnklin Augustus Myers, A.B. (*Lincoln Univ.*) 1913.
 n William O'Meara, A.B. (*Holy Cross Coll.*) 1912.
 roy Edward Parkins, A.B. (*Simpson Coll.*) 1912.
 ssel Hugo Patterson, S.B. (*Univ. of Georgia*) 1914.
 n Benjamin Rieger, PH.C. (*Univ. of Michigan*) 1906, S.B. (*ibid.*) 1907,
 S.M. (*George Washington Univ.*) 1914.
 n Charles Rock, S.B. 1915.
 rge Emil Rönne, A.B. (*Brown Univ.*) 1914.
 n Rose, A.B. 1915.
 nmann Schussler, Jr., S.B. (*Univ. of California*) 1914.
 rthur Carroll Scott, Jr., A.B. (*Univ. of Texas*) 1914.
 es Burnett Shields, S.B. (*Dartmouth Coll.*) 1914.
 olph Shoenfield, A.B. 1915.
 ene Pardon Sisson, Jr., S.B. (*Colgate Univ.*) 1916.
 rtis Everett Smith, A.B. (*Univ. of Wisconsin*) 1912, S.M. (*ibid.*) 1916.
 nson Arthur Smith, A.B. 1915.
 lph Case Spence, A.B. (*Univ. of North Carolina*) 1914.
 rmund Kenneth Steenburg, A.B. (*Univ. of Nebraska*) 1916.
 adius Augustus Street, A.B. (*Colorado Coll.*) 1914.
 rman Henry Taylor, A.B. (*Haverford Coll.*) 1913, A.M. (*Harvard Univ.*)
 1914.
 riel Sanborn Thorne, A.B. 1913.
 nson Montgomery Vail, PH.B. (*Yale Univ.*) 1914.
 rnar Stebbins Waring, A.B. (*Univ. of South Carolina*) 1914.
 ymond Cyrus Whitney, S.B. (*Middlebury Coll.*) 1914.
 rge Smallwood Wickham, A.B. (*Holy Cross Coll.*) 1914.

Adam Chness Williamson, A.B. (*Westminster Coll.*) 1911, A.M. (*Princeton Univ.*) 1914.

Allen Pellington Winsor, A.B. 1914.

M.D. *cum Laude*

Fletcher Hatch Colby, S.B. (*Dartmouth Coll.*) 1914.

Douglas Donald, S.B. (*Univ. of Michigan*) 1916.

William Edwin Gabe.

Donald Storrs King, A.B. (*Oberlin Coll.*) 1912.

Leland Sterling McKittrick, S.B. (*Univ. of Wisconsin*) 1915.

Harold Myers Marvin, A.B. (*Davidson Coll.*) 1914.

Robert Nason Nye, A.B. 1913.

Chester Clayton Schneider, S.B. (*Univ. of Wisconsin*) 1916.

Wilfred Sefton, PH.D. (*Yale Univ.*) 1914.

M.D. *Magna cum Laude*

Maurice Fremont-Smith, A.B. 1914 (1913).

Paul Clark Gunby, A.B. 1914.

Frederick Sherman Hopkins, A.B. 1915.

Rustin McIntosh, A.B. 1914.

Albert Elisha Parkhurst, A.B. (*Bowdoin Coll.*) 1913.

Willard Cole Rappleye, A.B. (*Univ. of Illinois*) 1915.

DR. P.H.

Leverett Dale Bristol, S.B. (*Wesleyan Univ.*) 1903, M.D. (*Johns Hopkins Univ.*) 1907.

Thesis, "A Comparative Study of Infantile Paralysis, Animal Distemper and its Related Diseases."

ON JUNE 20, 1918, DEGREES WERE CONFERRED AS FOLLOWS:—

M.D.

Frank William Anderson, S.B. (*Dartmouth Coll.*) 1908.

Harold Cotton Bean, S.B. (*Dartmouth Coll.*) 1914.

James Thomas Brennan, A.B. (*Rock Hill Coll.*) 1909.

Afley Leonel Brett, A.B. (*Brown Univ.*) 1910.

Marshall Chipman Cheney, A.B. (*Univ. of California*) 1909.

Francis Sterling Harris, PH.D. (*Yale Univ.*) 1914.

Leon Clive Havens, A.B. (*Colorado Coll.*) 1913, A.M. (*ibid.*) 1914.

Fred Gooding Holmes, A.B. (*Univ. of California*) 1915.

James Bowe Moloney, A.B. 1914.

- Ernest Ashton Osgood, A.B. 1911, A.M. 1915, D.M.D. 1915.
Charles Henry Parsons, Jr., S.B. (*Dartmouth Coll.*) 1916.
Benjamin Delos Paul, S.B. (*Purdue Univ.*) 1912.
Charles Harold Root, PH.B. (*Yale Univ.*) 1914.
John Newton Shirley.
Percy Stone, S.B. 1915.
Montgomery Davis Wetherell, A.B. (*Williams Coll.*) 1912.
Thomas Foster Wheeldon, A.B. (*Univ. of Missouri*) 1914, A.M. (*ibid.*) 1915.

M.D. *cum Laude*

- Edward Sawtelle Welles, S.B. (*Iowa State Coll.*) 1913.

M.D. *Magna cum Laude*

- Donald Myers Atwater, A.B. (*Colorado Coll.*) 1914.

DR. P.H.

- Ernest Weinzierl, S.B. (*Univ. of Wisconsin*) 1896, S.M. (*ibid.*) 1900, PH.D. (*ibid.*) 1906.
thesis, "The Bacteriology of Canned Foods."

THE MEDICAL SCHOOL

CANDIDATES FOR THE DEGREE OF DOCTOR OF PUBLIC HEALTH

Bill, José Pentecado, A.B. (<i>Dickinson Coll.</i>) 1907, M.D. (<i>Harvard Univ.</i>) 1916,	Wayland
Bronfenbrenner, Jacques, PH.D. (<i>Columbia Univ.</i>) 1912,	Boston
Cheyney, Ernest Waldron, S.B. (<i>Univ. of Pennsylvania</i>) 1911, M.D. (<i>ibid.</i>) 1917,	Philadelphia, Pa.

FOURTH CLASS

Adler, Stuart Welsh, PH.B. (<i>Lafayette Coll.</i>) 1915,	Yonkers, N. Y.
Ames, Forrest Bertram, A.B. (<i>Univ. of Maine</i>) 1913,	Bangor, Me.
Argo, William Chenault, A.B. (<i>Colorado Coll.</i>) 1915,	Colorado Springs, Colo.
Attridge, Arthur James, A.B. (<i>St. Francis Xavier Coll.</i>) 1910,	Brooklyn
Atwood, Warren Gerald, A.B. (<i>Dartmouth Coll.</i>) 1915,	Beacon, N. Y.
Ayer, Vernon Alexander, S.B. (<i>Clark Univ., Ga.</i>) 1914,	Gainesville, Fla.
Ayres, Samuel, Jr., A.B. (<i>Univ. of Missouri</i>) 1915,	Allenton
Beasley, Albert Sidney, Jr., A.B. (<i>Lincoln Univ.</i>) 1915,	Macon, Ga.
Black, Ellis Moore, A.B. (<i>Ohio State Univ.</i>) 1912, A.M. (<i>ibid.</i>) 1915,	Columbus, O.
Blackett, Charles Wesley, Jr., A.B. (<i>Boston Univ.</i>) 1915,	Brookline
*Boch, Joseph,	Whitman
Boggs, Arthur Gordon, A.B. (<i>Dartmouth Coll.</i>) 1915,	Needham
Bowler, John Pollard, A.B. (<i>Dartmouth Coll.</i>) 1915,	Hanover, N. H.
Breed, William Bradley, A.B. 1915,	Syracuse, N. Y.
Briggs, Wallace Rideout, A.B. (<i>Univ. of California</i>) 1916,	Sacramento, Cal.
Burnett, Joseph Hamilton, A.B. (<i>Yale Univ.</i>) 1916,	East Boston
Burwell, Charles Sidney, Jr., A.B. (<i>Allegheny Coll.</i>) 1914,	Meadville, Pa.
Cheney, Robert Cartwright, A.B. 1915,	Concord
Coleman, George Vincent, A.B. (<i>Holy Cross Coll.</i>) 1915,	Providence, R. I.
Cushing, Kirke Williams, PH.B. (<i>Kenyon Coll.</i>) 1914, A.B. (<i>Yale Univ.</i>) 1915,	Cleveland, O.
Davis, William Lincoln, S.B. (<i>Dartmouth Coll.</i>) 1913,	Concord

* Admitted on two years of college work.

Derby, Joseph Patrick, A.B. (<i>Catholic Univ. of America</i>) 1915,	No. Easton
Duffy, James Joseph, A.B. (<i>Holy Cross Coll.</i>) 1915,	Webster
Dunne, Richard Edwin, A.B. (<i>Catholic Univ. of America</i>) 1915,	Derby, Conn.
Fipphen, Clarence Wyman, S.B. (<i>Dartmouth Coll.</i>) 1916,	Concord, N. H.
Foster, William Harold, A.B. (<i>Boston Univ.</i>) 1914,	Boston
Garland, Joseph, A.B. 1915,	Winchester
Goodale, Alfred Montgomery, A.B. 1913,	Cambridge
Greene, Phillips Foster, A.B. (<i>Amherst Coll.</i>) 1915,	Upper Montclair, N. J.
Greenough, James, A.B. 1915,	Cambridge
Griffith, Jesse Brinker, A.B. (<i>Univ. of Pittsburgh</i>) 1915,	Monesson, Pa.
Haggart, Gilbert Edmund, A.B. (<i>Leland Stanford Jr. Univ.</i>) 1915,	Durango, Colo.
Haines, Samuel Faitoute, S.B. 1915,	Rochester, Minn.
Harris, William,	New London, Conn.
Herrick, Theodore Pomeroy, A.B. (<i>Yale Univ.</i>) 1915,	Cleveland, O.
Hill, Lee Forest, S.B. (<i>Dartmouth Coll.</i>) 1917,	Contoocook, N. H.
Hubbard, Eliot, Jr., A.B. 1915,	Boston
Jackson, Henry, Jr., A.B. 1915,	Boston
Jackson, Howard Burr, A.B. 1915,	Jamaica Plain
Jameson, Charles Harold, A.B. 1916,	Thomaston, Me.
Jones, Chester Morse, A.B. (<i>Williams Coll.</i>) 1913,	Newton Center
Kurth, Harold Richard, A.B. 1915,	Lawrence
Leddy, Eugene Thomas, A.B. 1915,	Taunton
Loeb, Robert Frederick,	New York, N. Y.
Long, Graydon, S.B. (<i>Univ. of Rochester</i>) 1912,	Rochester, N. Y.
Loud, Norman Wiley, A.B. 1915,	Colorado Springs, Colo.
Lucy, John Joseph, A.B. (<i>Boston Coll.</i>) 1915,	Somerville
Ludlow, George Craig, A.B. 1915,	Worcester
Lynch, Frederick James, S.B. (<i>Bowdoin Coll.</i>) 1915,	Cambridge
Lynch, James Joseph, S.B. (<i>Notre Dame Univ.</i>) 1915,	Laurens, Ia.
Mc Garry, Augustine Wilfred, A.B. (<i>St. Mary's Univ.</i>) 1911,	Brighton
Mc Gill, Donald Cameron, A.B. (<i>Cornell Univ.</i>) 1915,	Rochester, N. Y.
Mc Gowan, Daniel Joseph, Jr., A.B. (<i>Holy Cross Coll.</i>) 1913,	Newport, R. I.
MacKedon, William Leo, S.B. (<i>Univ. of Wisconsin</i>) 1917,	Milwaukee, Wis.
Martin, Charles Louis, E.E. (<i>Univ. of Texas</i>) 1914,	Dallas, Tex.
Mason, William, A.B. 1915,	Fall River
Meigs, Joe Vincent, A.B. (<i>Princeton Univ.</i>) 1915,	Lowell
Mills, Chester Rudolph, S.B. (<i>Colby Coll.</i>) 1915,	Needham
Minor, John, A.B. (<i>Univ. of Virginia</i>) 1916,	Asheville, N. C.

* Admitted on two years of college work.

- Monroe, Noel Gates, A.B. (*Lawrence Coll.*) 1911, Boston
- *Nay, Ernest Omar, Marshall, Ill.
- Neal, Paul Nathaniel, A.B. (*Trinity Coll., N. C.*) 1915, Monroe, N. C.
- Nelson, Wilford Merriam, S.B. (*Univ. of Wisconsin*) 1917, Heroult, Cal.
- Newton, Francis Chandler, A.B. (*Amherst Coll.*) 1915, Reading
- Nutter, Denton Gove, A.B. 1915, Newton Upper Falls
- O'Connor, Michael John, A.B. (*Holy Cross Coll.*) 1915, Providence, R. I.
- O'Hara, Dwight, S.B. (*Dartmouth Coll.*) 1915, Waltham
- Olch, Benedict, A.B. (*Brown Univ.*) 1915, Providence, R. I.
- Peck, Eugene Curtis, A.B. 1916 (1915), New Britain, Conn.
- Pennoyer, Grant Palmer, A.B. 1915, A.M. 1916, East Orange, N. J.
- Richards, Lyman Gilder, A.B. 1915, Fall River
- Richards, Thomas Kinsman, A.B. 1915, Spokane, Wash.
- Robinson, Bruce Bowman, A.B. (*Baker Univ.*) 1914, Fort Smith, Ark.
- A.M. (*Clark Univ.*) 1915, Ottumwa, Ia.
- Root, Howard Frank, A.B. 1913, Dearborn, Mo.
- Rose, Frank Herbert, A.B. (*William Jewell Coll.*) 1915, Harvard
- Royal, Kent Tyler, S.B. (*Colby Coll.*) 1915, Lowell
- Russell, George Gardiner, A.B. 1916, St. Paul, Minn.
- Rypins, Harold, A.B. (*Univ. of Minnesota*) 1914, Yonkers, N. Y.
- Sanders, Morris Blackman, A.B. (*Washburn Coll.*) 1914, Lexington
- Sargent, Francis Barnard, A.B. 1916, Brookline
- Schwartz, Charles Wadsworth, PH.B. (*Yale Univ.*) 1914, Newton
- Shackford, Bartlett Chauncey, S.B. (*Dartmouth Coll.*) 1917, Cambridge
- Shedden, William Martindale, A.B. (*Yale Univ.*) 1915, Cambridge
- Simpson, Charles Moffett, A.B. (*Trinity Univ., Tex.*) 1914, A.M. (*Harvard Univ.*) 1916, Waxahachie, Tex.
- Sisco, Dwight Lewis, A.B. (*Colorado Coll.*) 1913, A.M. Colorado Springs, Colo.
- (*ibid.*) 1914, Colorado Springs, Colo.
- Snider, Ivan, A.B. (*George Washington Univ.*) 1915, Oklahoma City, Okla.
- Snow, Bruce, A.B. 1915, Stoneham
- Stang, Hartwick Martinus, S.B. (*Univ. of Wisconsin*) 1916, Eau Claire, Wis.
- Stein, Louis Charles, A.B. (*Yale Univ.*) 1915, Hartford, Conn.
- Steinberg, Alfred Julian, A.B. (*George Washington Univ.*) 1914, Washington, D. C.
- Straus, Francis Howe, S.B. 1916, Hinsdale, Ill.
- Supple, William Raymond, A.B. (*Boston Coll.*) 1915, Cochituate
- Thorndike, William Tecumseh Sherman, A.B. 1915, Boston
- *Tso, Ernest Teh, Ichang, China
- Van Stone, Wilfred Douglas, A.B. (*Colorado Coll.*) 1915, Dallas, Tex.

- Veldee, Milton Victor, PH.C. (*Washington State Univ.*)
 1911, S.B. (*ibid.*) 1913, S.M. (*ibid.*) 1914, Bremerton, Wash.
 Wilder, Edward Wheeler, A.B. 1915, Dorchester
 Williams, Charles Amory, A.B. 1914, Brookline
 Woo, Shu Tai, Soochow City, China
 Wright, William Witter, A.B. (*Yale Univ.*) 1912, Putnam, Conn.

THIRD CLASS

- Adelman, Maurice, A.B. (*Brown Univ.*) 1916, Providence, R. I.
 Alexander, William Hamlet, S.B. (*Lehigh Univ.*) 1916, So. Bethlehem, Pa.
 Anderson, Howard Taylor, Salt Lake City, Utah
 Berger, Benjamin Jonathan, Halstead, Kan.
 Berman, Saul, A.B. 1916, Roxbury
 Blake, Philip Warren, Marlborough
 Bloomer, Gaylord Talmage, A.B. (*Univ. of Missouri*)
 1918, St. Joseph, Mo.
 Brittingham, Harold Hixon, A.B. (*Yale Univ.*) 1916, Madison, Wis.
 Browder, Newton Clarence, A.B. (*Butler Coll.*) 1916, Indianapolis, Ind.
 Brown, William Eustis, PH.B. (*Lafayette Coll.*) 1909, Boston
 Bulger, Harold Aten, S.B. (*Ohio State Univ.*) 1916, East Liverpool, O.
 Cabot, Irving Lyman, A.B. (*Middlebury Coll.*) 1915, Windsor, Vt.
 Carbaugh, Glenn Claiborne, A.B. (*William Jewell Coll.*)
 1915, Kansas City, Mo.
 Carr, Henry Pardee, Milledgeville, Ga.
 Cheley, Glen Evan, A.B. (*Colorado Coll.*) 1916, Colorado Springs, Colo.
 Churchill, Edward Delos, A.B. (*Northwestern Univ.*)
 1916, A.M. (*ibid.*) 1917, Chenoa, Ill.
 Clark, James Frederic Wright, A.B. (*Boston Univ.*) 1916, Waltham
 Craig, George Mansfield, S.B. (*Wesleyan Univ.*) 1916, Middletown, Conn.
 Cruff, Frederick Ellery, S.B. (*Bowdoin Coll.*) 1916, West Roxbury
 Daniels, Lewis Ernest, S.B. (*Univ. of Michigan*) 1911, Cambridge
 Denney, Elliott Stevenson, S.B. (*Beloit Coll.*) 1915, Aurora, Ill.
 Doherty, Gerald Leo, S.B. (*Tufts Coll.*) 1916, Dorchester
 Doherty, Henry Leo, A.B. (*Boston Coll.*) 1916, Stoneham
 Dorrance, Harold Sparrow, PH.B. (*Hamilton Coll.*) 1912, Camden, N. Y.
 Dwyer, Philip Roche, A.B. (*Boston Coll.*) 1916, Salem
 Eisenbourg, Adolphe, S.B. (*Mass. Inst. of Tech.*) 1912,
 A.M. (*Harvard Univ.*) 1914, Roxbury
 Emery, Edward Stanley, Jr., A.B. 1916, Brookline

* Admitted on two years of college work.

§ Has completed work in Harvard College for the Bachelor's degree.

† Admitted on three years of college work.

Evans, James Ambrose, A.B. (<i>Univ. of Wisconsin</i>) 1917,	LaCrosse, Wis.
Field, Henry, Jr., S.B. (<i>Syracuse Univ.</i>) 1916,	Marathon, N. Y.
Finkel, Henry Sumner, A.B. 1916,	Roxbury
Frasch, Otto Robert, A.B. 1913,	Seattle, Wash.
Friedberg, Emanuel Benjamin, A.B. 1915,	Pittsburgh, Pa.
Fuller, George Lester, A.B. (<i>Tufts Coll.</i>) 1916,	Braintree
Gamble, Clarence James, LITT.B. (<i>Princeton Univ.</i>) 1914, A.M. (<i>ibid.</i>) 1916,	Pasadena, Cal.
Gayler, Gilbert Ellis, A.B. 1916,	Cambridge
Gile, John Fowler, A.B. (<i>Dartmouth Coll.</i>) 1916,	Hanover, N. H.
Glover, Donald Mitchell, A.B. (<i>Univ. of Illinois</i>) 1916,	Urbana, Ill.
Goldsmith, Lauren Holmes, S.B. (<i>Univ. of Georgia</i>) 1916,	Atlanta, Ga.
Greene, David Dewey, A.B. 1916 (1917),	Cambridge
Habein, Harold Clinton, S.B. (<i>Carleton Coll.</i>) 1916,	Waseca, Minn.
Halliday, Clarence Walter, A.B. (<i>Univ. of Manitoba</i>) 1916,	Chatham, Ont.
Harbin, Robert Maxwell, S.B. (<i>Univ. of Georgia</i>) 1916,	Calhoun, Ga.
Herman, William, Jr., A.B. (<i>Yale Univ.</i>) 1912,	Boston
Hitchcock, James, A.B. (<i>Dartmouth Coll.</i>) 1909,	Cambridge
*Hoeffel, Gerald Norton,	Green Bay, Wis.
Joyce, Henry Stephen, A.B. 1916,	Ipswich
*Kelly, Otis Francis,	East Boston
King, Tse,	Wuchang, China
Kitsis, Henry Hyman, S.B. 1916 (1917),	Boston
Lamar, Clifford Lanier, A.B. (<i>Univ. of Alabama</i>) 1916,	Selma, Ala.
Landry, Benedict Bernard, A.B. (<i>Holy Cross Coll.</i>) 1916,	Bristol, Conn.
Leach, Robert Swepson, A.B. (<i>Univ. of Tennessee</i>) 1915,	Wytheville, Va.
*Ling, Wen-Ping,	Hangchow, China
Livingston, William Kenneth, A.B. (<i>Univ. of Oregon</i>) 1913, A.M. (<i>ibid.</i>) 1917,	Grande Prairie, Alberta, Can.
*Loh, Ven Tsao,	Shanghai, China
Looney, Joseph Michael, A.B. 1917 (1916),	Somerville
Lund, Charles Carroll, A.B. 1916,	Boston
Lyon, Don Dee, S.B. (<i>Univ. of Washington</i>) 1914,	Weiser, Idaho
McKnight, William Hodges, A.B. (<i>Univ. of Texas</i>) 1916,	Mansfield, Tex.
†Marble, Howard Bennett,	Plainville
Merrill, Earl Stephen, A.B. (<i>Univ. of Maine</i>) 1916,	Orono, Me.
Merrill, Ralph Edward, A.B. (<i>Bates Coll.</i>) 1916,	Patten, Me.
Mudd, Stuart, S.B. (<i>Princeton Univ.</i>) 1916, A.M. (<i>Washington Univ.</i>) 1918,	St. Louis, Mo.
Murphy, William Parry, A.B. (<i>Univ. of Oregon</i>) 1914,	Portland, Ore.

* Admitted on two years of college work.

† Admitted on three years of college work.

Newton, Harlan Fay, A.B. (<i>Yale Univ.</i>) 1916,	Reading
Odian, Missak Garabed, A.B. (<i>Apostolic Coll., Turkey</i>) 1913,	Angora, Asia Minor
Ogden, Warner, A.B. (<i>Carleton Coll.</i>) 1916,	St. Paul, Minn.
O'Leary, Joseph James, A.B. (<i>Catholic Univ. of America</i>) 1916,	Haverhill
O'Neil, Eugene Everett, A.B. 1916,	Danvers
Partridge, Winthrop Prescott, A.B. 1916,	Cambridge
Peacock, Thomas Gerald, A.B. (<i>Univ. of Georgia</i>) 1915,	Barnesville, Ga.
Putnam, Tracy Jackson, A.B. 1916 (1915),	Boston
Richards, Paul Snelgrove,	Salt Lake City, Utah
Rigby, Harlo B, S.B. (<i>Univ. of Utah</i>) 1918,	Rexburg, Idaho
Romberg, Eli Charles, A.B. 1914,	Dorchester
Rowell, Hugh Grant, A.B. (<i>Dartmouth Coll.</i>) 1915,	Orleans, Vt.
Rypins, Russel Franklin, A.B. (<i>Univ. of Minnesota</i>) 1916,	St. Paul, Minn.
Sanford, Clarence Higgins, S.B. 1915,	Allston
Savage, William Elliott, A.B. (<i>Univ. of Illinois</i>) 1917,	Brighton
Schmitz, Herbert Walter, S.B. (<i>Univ. of Wisconsin</i>) 1918,	Manitowoc, Wis.
Seudder, Winthrop Davis,	Osterville
Sheehan, John Dennis, A.B. (<i>Holy Cross Coll.</i>) 1916,	Worcester
Smiley, Harold Everett, PH.B. (<i>Brown Univ.</i>) 1912, S.M. (<i>ibid.</i>) 1913,	Providence, R. I.
Smith, Lawrence Weld, A.B. 1916,	Brookline
Smith, Richard Ilsley, S.B. (<i>Tufts Coll.</i>) 1916,	Auburn, Me.
Soletsky, David, S.B. (<i>Coll. of the City of New York</i>) 1914,	New York, N. Y.
Stillman, Raymond Durgin, S.B. (<i>Bates Coll.</i>) 1916,	Saco, Me.
Storrs, Ralph Warren, S.B. (<i>Trinity Coll., Conn.</i>) 1917,	Hartford, Conn.
Swartz, Jacob Hyams,	Dorchester
Tefft, Richard Carlisle, Jr., A.B. (<i>Yale Univ.</i>) 1916,	Hudson Falls, N. Y.
Van Den Berg, William John, S.B. (<i>Univ. of Wisconsin</i>) 1918,	Menominee, Mich.
Viko, Louis Eindred,	Salt Lake City, Utah
Weiner, Sidney Hertz,	Boston
Weise, Walter John, A.B. (<i>Yale Univ.</i>) 1916,	Meriden, Conn.
Wheeler, Roy Russell,	Rockeville Centre, N. Y.
Wiggin, Sidney Cushing, S.B. (<i>Tufts Coll.</i>) 1916,	Roxbury
Wilson, Edward Harlan, S.B. (<i>Dartmouth Coll.</i>) 1915,	Columbus, O.
† Wolfsohn, Mast,	San Francisco, Cal.
Wood, Russell, A.B. 1916,	New Bedford
Yoakam, Wayne Addison, S.B. (<i>Denison Univ.</i>) 1916,	Homer, O.

* Admitted on two years of college work.

† Admitted on three years of college work.

SECOND CLASS

Anderson, John Gordon, S.B. (<i>Rhode Island State Coll.</i>) 1917,	Westerley, R. I.
Angle, Edward Everett Dupuytron, A.B. (<i>Univ. of Nebraska</i>) 1918,	Lincoln, Neb.
Bagusin, Alexis Matthew, A.B. (<i>Univ. of Illinois</i>) 1915,	Roxbury
†Bates, George Campbell,	Lake Forest, Ill.
Bauman, Clair Sylvester, S.B. (<i>Pennsylvania State Coll.</i>) 1918,	Lock Haven, Pa.
Benjamin, Aubrey Crane, A.B. 1918,	Dorchester
Blaisdell, Charles Byron, A.B. 1918 (1917),	Long Branch, N. J.
Blumgart, Herrmann Ludwig, S.B. 1918,	Newark, N. J.
†Bouvé, Howard Allston.	Wakefield
Boyd, Howard, S.B. (<i>Allegheny Coll.</i>) 1915,	Meadville, Pa.
Bray, Thomas Ambrose, A.B. (<i>Boston Coll.</i>) 1917,	Holliston
Buck, Robert William, A.B. (<i>Butler Coll.</i>) 1914, A.M. (<i>Columbia Univ.</i>) 1915,	Indianapolis, Ind.
†Byers, Randolph Kunhardt,	Boston
†Castle, William Bosworth,	Belmont
Chapman, Edward Northrop, A.B. (<i>Yale Univ.</i>) 1917,	New London, Conn.
Clarke, Charles William, S.B. (<i>Iowa State Coll.</i>) 1915,	Fairfield, Ia.
Crumrine, Clarence Acklin, A.B. (<i>Washington and Jefferson Coll.</i>) 1917,	Washington, Pa.
Curran, Jean Alonzo, A.B. (<i>Carleton Coll.</i>) 1916,	Mankata, Minn.
Di Leone, Ralph, A.B. (<i>Brown Univ.</i>) 1917,	Providence, R. I.
Blugg, Louis, A.B. 1917,	Berlin, N. H.
Dumphy, John Joseph, A.B. (<i>Holy Cross Coll.</i>) 1917,	Springfield
Dunphy, John Joseph, A.B. (<i>Holy Cross Coll.</i>) 1917,	Worcester
Everett, Winchester Winslow, A.B. 1917,	Newton Upper Falls
Goldsbury, James Edward, A.B. 1915,	Charlestown
*Grund, Jacob Leon,	Dorchester
Guller, Erastus Ingham, A.B. (<i>Colgate Univ.</i>) 1917,	Hamilton, N. Y.
Haire, Paul Gregory, A.B. (<i>Clark Coll.</i>) 1917,	Worcester
Harrington, Winthrop Wendell, A.B. 1917,	Waltham
Hettwer, Joseph Paul, A.B. (<i>Marquette Univ.</i>) 1915, A.M. (<i>Catholic Univ. of America</i>) 1916, A.M. (<i>Harvard Univ.</i>) 1917,	Milwaukee, Wis.
*Hopkins, Heywood Hill,	Thomasville, Ga.
Hopkins, John Edward, A.B. (<i>Boston Coll.</i>) 1916,	Lawrence

* Admitted on two years of college work.

† Admitted on three years of college work.

- †Hough, Garry de Neuville, Jr.
 *Hu, Cheng Hsiang,
 Hudson, Royal Carlton, S.B. (*Rhode Island State Coll.*)
 1915,
 Hughes, William Newton, A.B. (*Brown Univ.*) 1916,
 A.M. (*ibid.*) 1917,
 Jones, Stephen George, A.B. 1917,
 Joslin, Doyle, A.B. (*Colorado Coll.*) 1917,
 Katz, Henry, A.B. (*Yale Univ.*) 1917,
 Kennedy, Benjamin Hughes, Jr., A.B. (*Univ. of Ala-*
bama) 1916,
 Lane, John Thomas, A.B. (*Boston Coll.*) 1917,
 Liebman, Charles, PH.B. (*Yale Univ.*) 1917,
 *Long, LeRoy Downing,
 *Lugitch, Maurice,
 Luther, Eliot Horton, A.B. (*Brown Univ.*) 1917,
 *Lutz, Frank Louis,
 Lydon, Cyril Michael, A.B. (*Boston Coll.*) 1917,
 McConnell, William Ethellert, S.B. (*Allegheny Coll.*) 1917,
 *Macdonald, Maxwell Eugene,
 McGarrahan, John Cooley, A.B. (*Amherst Coll.*) 1917,
 McLeod, James Carlisle, A.B. (*Univ. of North Caro-*
lina) 1917,
 †Mallory, Tracy Burr,
 Manuel, William Frederick, A.B. (*Bates Coll.*) 1915,
 Means, Paul Howard, A.B. 1917,
 Merwarth, Harold Russell, A.B. (*Lehigh Univ.*) 1917,
 Miller, Frederic Munger, Jr., S.B. (*Hamilton Coll.*) 1917,
 Nelligan, Thomas Hayes, A.B. (*Amherst Coll.*) 1917,
 Nichols, Alvord Gates, A.B. (*Colgate Univ.*) 1916,
 Noyes, Harold Greeley, A.B. 1914, A.M. 1915,
 *Oler, Harry,
 O'Brien, Thomas Francis, A.B. (*Holy Cross Coll.*) 1917,
 Patman, William Louis, A.B. (*Univ. of Georgia*) 1917,
 †Pfaff, Dudley Alvey,
 Reese, Algernon Beverley, Jr., S.B. (*Davidson Coll.*) 1917,
 Ricketson, Oliver Garrison, Jr., A.B. 1916,
 Ryley, Harold William, A.B. (*Brown Univ.*) 1917,
 Scaiefe, Benjamin Franklin, Jr., A.B. (*Univ. of Oregon*)
 1917,
- New Bedford
 Wusih, China
 Phenix, R. I.
 Manton, R. I.
 Arlington
 Laramie, Wyo.
 Hartford, Conn.
 Birmingham, Ala.
 Cambridge
 New Haven, Conn.
 Oklahoma City, Okla.
 Boston
 Providence, R. I.
 Pawtucket, R. I.
 No. Abington
 Parnassus, Pa.
 Bangor, Me.
 Cohoes, N. Y.
 Florence, S. C.
 Brookline
 Houlton, Me.
 Brookline
 Easton, Pa.
 Utica, N. Y.
 Amherst
 Boston
 Newtonville
 East Boston
 Worcester
 Athens, Ga.
 Indianapolis, Ind.
 Charlotte, N. C.
 Pittsburgh, Pa.
 New London, Conn.
 Eugene, Ore.

† Admitted on three years of college work.

* Admitted on two years of college work.

Shea, Francis Xavier, A.B. (<i>Holy Cross Coll.</i>) 1917,	Everett
*Shir, Morris,	Cambridge
Shukle, Revashanker Maganlal, A.B. (<i>Clark Univ.</i>) 1917,	Bombay, India
Smith, Frank Raymond, A.B. (<i>Yale Univ.</i>) 1917,	Stratford, Conn.
Snelling, Pinckney Welch, A.B. (<i>Univ. of Georgia</i>) 1917,	Athens, Ga.
*Songkla, Mahidol,	Bangkok, Siam
Stater, Wayne J., A.B. (<i>Univ. of Oregon</i>) 1917,	McMinnville, Ore.
*Stone, Alexander Albert,	Chelsea
*Sziklas, Charles,	Budapest, Hungary
*Thorndike, Augustus, Jr.	Boston
*Thurman, Aaron,	Dorchester
*Toot, Joseph Frederick,	E. Liverpool, O.
Towlerton, Fletcher Johnson, A.B. 1917,	Lyons, N. Y.
Townsend, James Harvey, A.B. 1917,	Newton
†Vela, Francisco,	Mexico City, Mexico
Vickers, Denver, A.B. (<i>Colorado Coll.</i>) 1917,	Colorado Springs, Colo.
Washburn, Alfred Hamlin, A.B. (<i>Amherst Coll.</i>) 1916,	Boston
*Webber, Samuel Rideout,	Calais, Me.
Weyler, Henry Leon Cohen, PH.B. (<i>Brown Univ.</i>) 1916,	Providence, R. I.
Whitehorn, John Clare, A.B. (<i>Doane Coll.</i>) 1916,	Spencer, Neb.
Woodbridge, Philip Dudley, A.B. 1917,	West Newton

FIRST CLASS

Abel Abraham Lincoln, A.B. (<i>Brown Univ.</i>) 1917,	Providence, R. I.
Albert, Simon, A.B. 1918 (1917),	Malden
Baker, Henry, S.B. 1917,	Dorchester
†Barton, Basil Egbert,	Forest Hills
Benton, Roy Wilmot, PH.B. (<i>Brown Univ.</i>) 1918,	New Bedford
*Bixby, Harry Irving,	Holbrook
*Boyd, Douglas, Jr.	Griffin, Ga.
†Brunswick, David,	New York, N. Y.
†Butterfield, Clifford Allen,	Kingman, Me.
*Canavan, Henry Stephen,	New Bedford
Carlson, Fred Albert, S.B. (<i>Mass. Agricultural Coll.</i>) 1918,	Pittsfield
*Castle, Henry Fassett,	Belmont
Champ, Anthony Marius, A.B. (<i>Clark Coll.</i>) 1915,	Brockton
§Christian, Thomas Davis, Jr.	Lynchburg, Va.
*Chung, Mon-Fah,	Honolulu, Hawaii

* Admitted on two years of college work.

† Has completed work in Harvard College for the Bachelor's degree.

‡ Admitted on three years of college work.

§ Admitted on four years of college work.

*Constantine, Charles Ezra,	Omaha, Neb.
Cranford, Clarence H, S.B. (<i>Univ. of Alabama</i>) 1918,	Jasper, Ala.
Creed, John Patrick, A.B. (<i>Boston Coll.</i>) 1918,	Haverhill
*Davidoff, Leo Max,	Salem
Davis, Hallowell, A.B. 1918,	Brookline
DuCharme, Joseph Napoleon, A.B. (<i>Holy Cross Coll.</i>) 1916,	Millbury
Ernlund, Carl Helge, A.B. (<i>Coll. of Lund, Sweden</i>) 1911, D.M.D. (<i>Hartard Univ.</i>) 1917,	Brunsta, Sweden
*Everett, Ernest Alfred,	Lincoln, Neb.
*Farnsworth, Kenneth Clyde,	Islesford, Me.
Findlay, Francis McRae, A.B. (<i>Park Coll.</i>) 1918,	Parkville, Mo.
*Flashman, David Harry,	Roxbury
Fray, Walter Wendell, S.B. (<i>Syracuse Univ.</i>) 1916, S.M. (<i>ibid.</i>) 1917,	Catskill, N. Y.
Gardner, Stuart Needham, A.B. 1917,	Peabody
*Garside, Francis Vincent, A.B. (<i>Brown Univ.</i>) 1918,	Providence, R. I.
Glazier, James Raymond,	Belpre, O.
Glover, John Lamson,	Ipswich
Goldberg, Bernard Isadore, S.B. (<i>Tufts Coll.</i>) 1918,	Roxbury
Goldman, Joseph, A.B. 1918,	Boston
*Goodrich, Howard Brant,	Brooklyn, N. Y.
*Gordon, Donald Covil,	Hazardville, Conn.
Hackett, Edward Valentine, A.B. (<i>Holy Cross Coll.</i>) 1918,	Worcester
Haggart, William Waugh,	Durango, Colo.
Hagstrom, Henry Theodore, PH.B. (<i>Brown Univ.</i>) 1917,	Youngstown, O.
Halpern, Samuel, A.B. (<i>Columbia Univ.</i>) 1918,	Newark, N. J.
Harper, William-Frantz, S.B. (<i>Univ. of Alabama</i>) 1918,	Selma, Ala.
Kahn, George, S.B. (<i>Mass. Institute of Technology</i>) 1918,	Boston
*Kean, Francis Peter,	Manchester, N. H.
*Kendrick, Thomas Paul,	Brookline
*King, William Aldrich,	Woonsocket, R. I.
*Kopel, Moses,	Malden
*Kreider, Paul Gates,	Springfield, Ill.
*Lebowich, Richard Jacob	Roxbury
Leigh, Howard, S.B. (<i>Earlham Coll.</i>) 1918,	Spiceland, Ind.
Levenson, Walter Sabin, A.B. 1918,	Roxbury
*Loring, Robert Edward Lee,	Shrewsbury

* Admitted on two years of college work.

‡ Admitted on three years of college work.

§ Admitted on four years of college work.

- McKinnon, Donald Sykes, PH.B. (*Yale Univ.*) 1918, Springfield
 MacLachlan, Kenneth Long, A.B. 1918, Melrose
- *Magovern, Malcolm James, Saratoga Springs, N. Y.
 Mahoney, John William, A.B. (*Holy Cross Coll.*) 1918, Pittsfield
 Malkiel, David, S.B. 1918, Dorchester
 *Maraldi, Carl Francis, Roxbury
 Marion-Landais, José Felipe Gontran, A.B. (*Escuela de Bachilleras de Santo Domingo*) 1912, M.D. (*Universidad Central de Santo Domingo*) 1918, San Pedro de Macoris, Dominican Rep.
- ‡Marquis, William James, Jr., Lincoln, Neb.
 Mason, Robert Leonard, Oklahoma City, Okla.
 *Meachen, John Willis, Burlington, Vt.
 Meisenheimer, Thomas Melchor, S.B. (*Davidson Coll.*) 1918, Charlotte, N. C.
 Mitchell, Edward Francis, A.B. (*Holy Cross Coll.*) 1907, Clinton
 Montgomery, Hamilton, A.B. 1918, Chicago, Ill.
 ‡Noonan, John Thomas, Great Barrington
 O'Brien, Charles Francis, A.B. (*Holy Cross Coll.*) 1918, Chicopee
 O'Brien, Francis John, A.B. (*Holy Cross Coll.*) 1912, A.M. (*Clark Univ.*) 1913, PH.D. (*ibid.*) 1916, Bridgeport, Conn.
 Pickles, Wilfred, A.B. (*Brown Univ.*) 1918, Edgewood, R. I.
 Pothier, Aubrey Joseph, A.B. (*Holy Cross Coll.*) 1918, New Bedford
 Powell, James Patrick, S.B. 1916, No. Cambridge
 Putnam, John Pickering, A.B. (*Harvard Univ.*) 1916, Boston
 S.B. (*Mass. Institute of Technology*) 1918, Boston
- *Quasser, Adolph, Portsmouth, O.
 *Ransom, Henry King, Jackson, Mich.
 Reynolds, Edward Joseph, S.B. (*Notre Dame Univ.*) 1918, Bellows Falls, Vt.
 Ritvo, Max, A.B. 1918, Dorchester
 Robinson, Hugh Laughlin, A.B. (*Colby Coll.*) 1918, Waterville, Me.
- *de Santamaria, Eustacio Sanz, Jr., A.B. (*El Colegio Nacional de San Bartolome*) 1911, Bogota, Colombia
 Silverman, Samuel Isadore, A.B. (*Brown Univ.*) 1918, Providence, R. I.
 Smith, Edward Charles, A.B. (*Boston Coll.*) 1918, Abington
 Sprague, Howard Burnham, A.B. 1918, Swampscott
 Standish, Erland Myles, S.B. (*Wesleyan Univ.*) 1918, Wethersfield, Conn.
 ‡Stephenson, Charles Wattles, Pittsburgh, Pa.
 *Steuer, Leonard Gerard, Cleveland, O.

* Admitted on two years of college work.

‡ Admitted on three years of college work.

Stimson, Horace Pottle, A.B. (<i>Amherst Coll.</i>) 1918,	Northampton
*Sullivan, John James,	Roslindale
Sullivan, Lewis Gregory, A.B. (<i>Boston Coll.</i>) 1918,	Marblehead
†Suravitz, Benjamin Norman,	Scranton, Pa.
*Swan, Channing Stearns,	Stoughton
Sydney, Jacob Theodore, A.B. (<i>Brown Univ.</i>) 1918,	Providence, R. I.
Taylor, Grantley Walder, A.B. 1918,	Paterson, N. J.
Tennis, Max, S.B. (<i>Tufts Coll.</i>) 1916,	Dorchester
Torgan, Milton, S.B. (<i>Rhode Island State Coll.</i>) 1918,	E. Providence, R. I.
Valverde, Rafael Ernesto, A.B. (<i>Escuela de Bachilleres de</i> <i>Santo Domingo</i>) 1912, M.D. (<i>Universidad Central de</i> <i>Santo Domingo</i>) 1918,	Santo Domingo, Dominican Rep.
Versteegh, Arnoldus Dirk, Jr., (<i>Univ. of Leyden, Hol-</i> <i>land</i>) 1905,	Amsterdam, Holland
Westheimer, James Russell, A.B. (<i>Cornell Univ.</i>) 1917,	Americus, Ga.
Winkler, Herman Aaron, PH.B. (<i>Brown Univ.</i>) 1918,	Providence, R. I.
Wolff, Louis, S.B. (<i>Mass. Institute of Technology</i>) 1918,	Revere
*Wright, Laurence Edward,	Boulder, Colo.

SUMMARY

CANDIDATES FOR THE DEGREE OF DOCTOR OF PUBLIC	
HEALTH	3
CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE	
FOURTH CLASS	100
THIRD CLASS	100
SECOND CLASS	87
FIRST CLASS	97
TOTAL	387

† Admitted on three years of college work.

* Admitted on two years of college work.

GRADUATES OF COLLEGES

Apostolic College	1	Park College	1
Allegheny College	3	Pennsylvania State College	2
Amherst College	6	Princeton University	4
Baker University	1	Rhode Island State College	3
Bates College	3	St. Francis Xavier College (N. S.)	1
Beloit College	1	St. Mary's University	1
Boston College	11	Leland Stanford Jr. University	1
Boston University	3	Syracuse University	3
Bowdoin College	2	Trinity College (Conn.)	1
Brown University	18	Trinity College (N. C.)	1
Butler College	2	Trinity University (Texas)	1
Carleton College	3	Tufts College	6
Catholic University of America	4	University of Alabama	4
Clark College	1	University of California	1
Clark University	5	University of Georgia	5
Clark University (Ga.)	1	University of Illinois	3
Colby College	3	University of Leyden (Holland)	1
Colgate University	2	University of Maine	2
College of the City of New York	1	University of Manitoba	1
College of Lund (Sweden)	1	University of Michigan	1
El Colegio Nacional de San Bartolome	1	University of Minnesota	2
Colorado College	7	University of Missouri	2
Columbia University	3	University of Nebraska	1
Cornell University	2	University of North Carolina	1
Dartmouth College	12	University of Oregon	5
Davidson College	2	University of Pennsylvania	2
Denison University	1	University of Pittsburgh	1
Dickinson College	1	Universidad Central de Santo Domingo	2
Doane College	1	University of Tennessee	1
Earlham College	1	University of Texas	2
Escuela de Bachilleras de Santo Domingo	2	University of Utah	1
Hamilton College	2	University of Virginia	1
Harvard College	81	University of Washington	1
Holy Cross College	17	University of Wisconsin	6
Iowa State College	1	Washburn College	1
William Jewell College	2	George Washington University	2
Kenyon College	1	Washington and Jefferson College	1
Lafayette College	2	Washington State University	3
Lawrence College	1	Washington University	1
Lehigh University	2	Wesleyan University (Conn.)	2
Lincoln University	1	Williams College	1
Marquette University	1	Yale University	17
Massachusetts Agricultural College	1	Total	328
Massachusetts Institute of Technology	4	Counted more than once	25
Middlebury College	1	Total Number of College Graduates	300
Northwestern University	2	Number of Colleges	90
Notre Dame University	2		
Ohio State University	3		

ANNOUNCEMENT FOR 1919-20

The next session of the Medical School begins September 22, 1919. All students are required to register at the Dean's office on this day. Students registering in the Medical School for the first time will meet in the Amphitheatre in the Administration Building of the Harvard Medical School, on Monday, the 22d of September, at 10 A.M. Students desiring to enter the Harvard Medical School in the first-year class, or with advanced standing, should file an application blank, which can be obtained from the Dean's office, on or before July 1st, 1919.

CALENDAR

1919.

- Sept. 10, Wednesday.* Examinations begin for applicants for advanced standing, and for men previously conditioned.
- Sept. 22, Monday.* Academic Year begins. Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
- Oct. 13, Monday.* Columbus Day: a holiday.
- Nov. 27, Thursday.* Thanksgiving Day: a holiday.
- Dec. 10, Wednesday.* Last day for receiving applications for the Cheever, Haven, and Hayden Scholarships.

RECESS FROM DEC. 23, 1919, TO JAN. 2, 1920, INCLUSIVE

1920.

- Jan. 15, Thursday.* Last day for receiving applications from students in the Professional Schools to be qualified for the degrees of Ph.D. and A.M. in 1920.
- Jan. 26, Monday.* Mid-year Examinations begin.
- Jan. 31, Saturday.* Payment of the second instalment of the tuition-fee is required on or before this date.
- Feb. 2, Monday.* Second half-year begins.
- Feb. 23, Monday.* Washington's Birthday: a holiday.
- April 1, Thursday.* Last day for receiving dissertations for the Bowdoin Prizes.

RECESS FROM APRIL 18 TO APRIL 24, INCLUSIVE

- May 1, Saturday.* Last day for receiving dissertations for the Dante, Tappan, and Sumner Prizes.
- May 1, Saturday.* Last day for receiving applications for the Bullard Fellowships and the Moseley Travelling Fellowships.
- May 1, Saturday.* Last day for receiving applications for Scholarships for 1920-21 (except the Cheever, Haven, and Hayden Scholarships).
- May 1, Saturday.* Last day for receiving applications of candidates for the degree of M.D. in 1920.
- May 31, Monday.* Memorial Day: a holiday.
- June 1, Tuesday.* Examinations begin.
- June 24, Thursday.* Commencement.

SUMMER VACATION, FROM COMMENCEMENT TO SEPTEMBER 26, INCLUSIVE

- Sept. 15, Wednesday.* Examinations begin for applicants for advanced standing, and for men previously conditioned.
- Sept. 27, Monday.* Academic Year begins. Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
- Oct. 12, Tuesday.* Columbus Day: a holiday.
- Nov. 25, Thursday.* Thanksgiving Day: a holiday.
- Dec. 10, Friday.* Last day for receiving applications for the Cheever, Haven, and Hayden Scholarships.

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 CHEEVER, D., *Asst. Prof. and Assoc.*, 13, 17, 26, 27, 38, 54, 57, 67, 76.
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